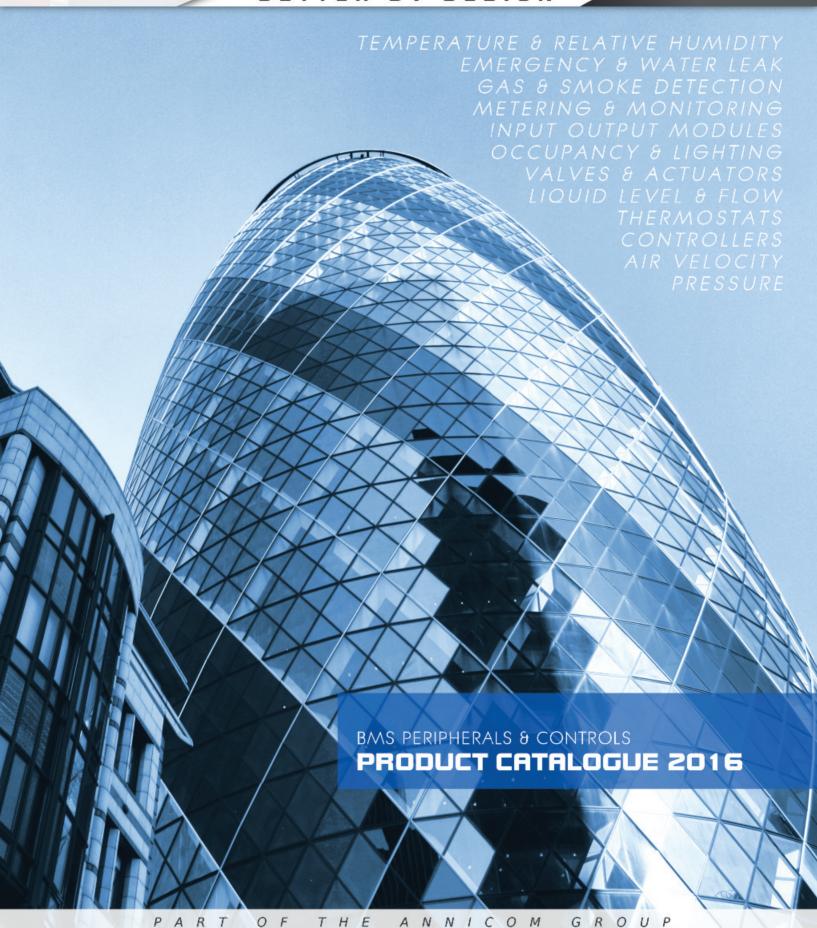


BETTER BY DESIGN





WELCOME

Thank you for choosing AXIO, the truly British-born Controls Brand. We have made a host of exciting changes for 2016; from doubling our production capacity to investing heavily in the people and products that make AXIO so popular.

Our stock levels are greater than ever and our new distribution network in the Middle East will ensure faster deliveries and lower freight costs for all of our customers in that region. We have a huge list of new products which will be incorporated into our new look website to be launched soon, alongside a dedicated Middle East website. Overleaf you will find two pages dedicated to our most exciting new products and a full glossary of all our new additions this year.

You will notice three icons placed around the catalogue for new products and price drops (there are quite a few!). You'll also see several price breaks have been introduced to our most popular lines.

As AXIO has continued to evolve we have remained true to the values we know are important to you; innovative and flexible design, truly British made products, from concept to manufacture, and most importantly, products that demonstrate our passion and commitment to developing excellent Peripherals and Control Devices.

Thanks to you, our customers, AXIO continues to bring you the best of British engineering and manufacture, at incredible prices.

Dennis Gates Managing Director

W H A T 'S N E W



We've introduced more new products this year than ever. Look out for the red icon for all the latest additions.



You've asked, we've listened. Price breaks on a wide range of our most popular products; buy a minimum quantity, or by the box, for even better pricing.



We've streamlined our production and invested in new equipment to bring you the best possible pricing on our most popular products. Look out for the Price Drop icon to see what you could save.



Providing the best courier services available doesn't come cheap, that's why this year we've finally had to increase our delivery charge to £9.50. To counteract this, we're offering free carriage on orders over £200 up to 25Kgs.

PRODUCT CATALOGUE 2016

CONTENTS

TURN TO PAGES 4 AND 5 FOR A FULL LIST OF NEW PRODUCTS

6 INPUT OUTPUT MODULES

- 7 Multiplexing modules Digital & Analogue
- 7 Switching modules Analogue
- 8 9 Raise/Lower & Signal Conversion modules
 - 10 Rescaling, Limiting & Splitter modules
 - 11 Phase Cut modules & Analogue to Pneumatic
- 12 13 Relay modules
 - 14 Multi-Mode & Advanced Relay modules
 - 15 Timers & Phase Failure Relays

16 CONTROLLERS

- 17 18 Power Controllers & Solid State Relays
 - 19 Proportional, Free Cooling & Window Controllers
 - 20 Fan Coil Controllers
 - 21 Fan Changeover and Package Unit Controllers
- 22 23 Fan / Motor Speed Controllers
 - 24 Inverter Drives

25 THERMOSTATS

- 26 Electronic Thermostats DIN Rail
- 27 Intelligent Room Thermostats
- 28 Standard Room Thermostats
- 29 Frost & Plant Thermostats
- 30 Capillary Thermostats
- 31 Immersion Thermostats

32 TEMPERATURE & RELATIVE HUMIDITY

- 33 36 Temperature Sensors
- 37 38 Relative Humidity & Temperature Transmitters
 - 39 Relative Humidity Sensors & Humidistats

40 EMERGENCY, WATER LEAK & DISPLAYS

41 Alarm Integrators & Annunciators

46 - 47 Air Differential Pressure & Accessories

49 Liquid Differential Pressure

- 42 Displays LCD & LED
- 43 Water Leak System, Condensation & Plant Extension
- 44 Emergency Products

50 POWER SUPPLIES, MONITORING & METERING

- 51 Transformers & Power Supplies
- 52 Current Switches & Transducers
- 53 KWH Meters Pulse, Modbus & BACnet
- 54 Current Transformers Solid Core
- 55 Current Transformers Split Core
- 56 Water Meters
- 57 Heat Meter Integrators & Ultrasonic Meters
- 58 Gas, Oil & Combined Water Meters

59 GAS & SMOKE DETECTION

- 60 Carbon Dioxide, Temperature & RH Sensors
- 61 Air Quality, Carbon Dioxide & Monoxide Sensors
- 62 Smoke, Refrigerant & LPG/LNG Sensors
- 63 Addressable System & Other Gas Detectors
- 64 Gas Proving & Interlock Systems

65 AIR VELOCITY, FLOW & LIQUID LEVEL

- 66 Air Velocity
- 67 Wind Speed & Weather Stations
- 67 Liquid Flow Switches
- 68 Liquid Level Switches
- 69 Liquid Level Hydrostatic Sensors
- 69 Liquid Level Capacitive Sensors
- 70 Liquid Level Ultrasonic Sensors & Systems

71 OCCUPANCY & LIGHTING

- 72 PIR Occupancy & Combined Light Level
- 73 Microwave Occupancy & Light Level Sensors

74 VALVES & ACTUATORS

- 75 Fan Coil Valves & Actuators
- 76 Pressure Independent Control Valves
- 76 Balancing Valves
- 77 Rotary Shoe Valves
- 77 Zone Valves
- 78 Ball Valves & Actuators
- 79 Butterfly Valves & Actuators
- 80 Gas Solenoid Valves
- 81 Solenoid Valves
- 82 83 Damper Actuators
 - 84 Fail-Safe Damper Actuators

86 COMMISSIONING TOOLS & BESPOKE PRODUCTS

- 86 Commissioning Tools
- 87 Hotel Controls
- 88 Versatemp Spares & Custom Plates
- 89 Bespoke Designs & OEM Products

GENERAL INFORMATION

45 PRESSURE

- 4-5 New Products for 2016
- 95 Freight & Delivery

47 - 48 Liquid Static Pressure

- 96 Account Application Form
- 97 Conditions of Sale
- 98 99 Catalogue Index

TECHNICAL INFORMATION

- 90 Metric Conversions & Ohms Law
- 91 92 BMS Temperature Resistance Charts
 - 93 Temperature Sensor Compatibility Chart
 - 94 Air Velocity to Differential Pressure Conversion

UK Fax: +44 (0)1420 48 77 99

BETTER BY DESIGN

NEW PRODUCT HIGHLIGHTS Some of our most exciting new products for 2016

AX-RM2L

2 STAGE RELAY MODULE WITH LCC



Our most advanced relay module yet; set individual switching points of either relay, either sharing one 0-10Vdc or accepting a 0-10Vdc each.

The RM2L also includes all features of the AX-RM2T; Raise/Lower, pump changeover, cascade, binary control and single/dual stage timer delay.

See Page 14 for more information.

AX-CN-FXO

FAN CHANGEOVER CONTROLLER



Provides automatic changeover for two fans based on time or failure. Triggered by high/low current or air pressure/flow loss. Includes air filter monitoring and configurable alarm relays.

Application environments include kitchens, toilets, bathrooms, wetrooms and extraction/air handling.

See Page 19 for more information.

AX-CN-PUC

PACKAGE UNIT CONTROLLER



A compact and cost effective solution for control of Package Units; fan coil and air Handling Units in a single package.

Control up to 4 compressors, an Inverter Drive, a Power Controller and a Humidifier all from a single unit.

See Page 21 for more information.

AX-CN-ST

THERMOSTAT WITH DUTY ROTATION



Offers the rich feature set of the AX-ET range with Duty Rotation, improving plant longevity through equal loading across all connected devices.

Units are housed in an IP20 DIN rail mounted enclosure, improving protection and aesthetics.

See Page 26 for more information.

AX-RHT-T3

THIMBLE RH&T TRANSMITTER



An RH&T Transmitter with detachable thimble in a huge range of materials, colours and finishes. The AX-RHT-T range allows discreet monitoring of Relative Humidity and Temperature. Especially suitable to environments where the sensor must be as unobtrusive as possible.

See Page 38 for more information.

AX-CDM

CONDENSATION MONITOR



A self-contained sensor whose main application is the early detection of condensation in chilled-beam air conditioning systems.

The new AX-CDM offers a 5m cable and both Normally Open and Normally Closed Contacts on the same unit, at an incredible price.

See Page 43 for more information.

AX-ADPT-D

AIR DIEF PRESSURE TRANSMITTER

High-quality, single range Air Differential Pressure Transmitters



These units feature a very small form factor, terminal cap protector and multiple DIN rail mounting options. The AX-ADPT-D provides excellent value for money and ships complete with a Duct Fixing Kit.

See Page 46 for more information.

AX-WM-HM

WATER METER & INTEGRATOR



Comes complete with a fully electronic calculator, pocket and sensor leads. With a 10 year battery life & suitable for tempuratures up to 90oC, the unit is available in 15mm & 20mm line sizes and features both pulse and M-Bus outputs as standard.

See Page 58 for more information.

AX-GS-CM

CARBON MONOXIDE SENSORS



A high-quality, tamper-proof CO transmitter for use in car parks and other non-ventilated areas.

The output voltage is configurable for either 0-5Vdc, 2-10Vdc or 0-10Vdc. An optional relay with jumper selectable trip points is available.

See Page 61 for more information.

AX-GS-CD-T51S

CARBON DIOXIDE SWITCH WITH LEDS



Adjustable switched output for CO2 applications where more advanced control is not required.

The unit incorporates an intuitive Visual Level Indicator display. The mounting style and 230Vac supply make this unit an excellent option for classroom installation.

See Page 61 for more information.

AX-HL

HYDROSTATIC LEVEL TRANSMITTERS



Measures the level of clean or contaminated water offering an excellent alternative to Ultrasonic equivalents. Provided with cable clamp and terminal for fast, easy installation.

4-20mA and 0-10Vdc versions with Intrinsically Safe option. Temperature Output option also available.

See Page 69 for more information.

AX-UL-PSW

ULTRASONIC PUMP CONTROL SYSTEM



Provides fully automatic level control of small tanks, sumps etc. Complete with an IP68 protected ultrasonic level transmitter.

The current controlled switch operates in differential level mode as default, with programmable high and low levels.

See Page 70 for more information.

PRODUCT CATALOGUE 2016

NEW PRODUCTS & RANGES

BACNET & MODBUS PRODUCTS

A full overview of our latest BACnet and Modbus products

AX-GS-CD-T



A complete gas detection system with an impressive array of sensors and features, with a Modbus RS485 Port as standard for connecting to BMS and other networks. The new AX-GS-TC-6 range of controllers feature either 8 or 32 addressable gas detector inputs, allowing you to monitor a vast array of rooms and gasses, with one control unit.

See Page 63 for more information.

AX-TE-WSP



Wall mounted temperature transmitter with attractive blue backlight. Features include 0-10Vdc outputs for both temperature and Setpoint, standard fitment to a standard single-gang backbox.

Modbus RTU version increases flexibility and is offered at an extremely competitive price point.

See Page 63 for more information.

AX-RM1MB





AX-ADPT-DA



AX-RDPM



AX-GS-CD-T81M





GLOSSARY OF ALL NEW PRODUCTS

INPUT OUTPUT MODULES

7 AX-ASM Analogue Switching module 12 AX-RM1MB Modbus Relay module

14 AX-RM2L 2 Stage Relay module with LCD

PRESSURE

46 AX-ADPT-D Single Range Air Diff. Pressure Transmitters 46 AX-ADPT-DA Multi Range Air Diff. Pressure Transmitters

47 AX-PVCT Air Pressure Accessories

47 AD-RDPM Room Differential Pressure Monitors 47 AX-LSPTD Liquid Static Pressure Transmitters

CONTROLLERS

21 AX-CN-PUC Package Unit Controller Fan Coil & VAV Controllers 20 AX-TBS 21 AX-CN-FXO Fan Changeover Controller

19 AX-CDFC Free Cooling Controller - Proportional PI Controller - New Variants incl. 0-10V input 19 AX-PI

POWER SUPPLIES, MONITORING & METERING

Compact 60VA DIN Rail Mounted Transformer 51 AX-TX-D60 52 AX-CSG Current Transducers - Selectable Ranges 53 AX-KWH KWH Meters with Modbus & BACNet

57 AX-WM-U Ultrasonic Water Meters

59 AX-WM-HM Combined Water Meter & Integrator

THERMOSTATS

38 AX-TE-WSP

33-35 AX-TE-*TX-W

36 AX-TE-BPP

34 AX-TE-ISP

39 AX-RH-H

33 AX-TF-F

39-40 AX-RHT-*2

40 AX-RHT-T

26 AX-CN-ST **Enclosed Thermostat with Duty Rotation**

Temperature Display & Setpoint with Modbus

Thimble & Button Sensors with Plate Options

Active Temperature Sensors - Wide Range

New 316 Stainless Steel Pockets

2% Relative Humidity Sensors

Thimble Relative Humidity Sensor

More IP68 Flying Leads as Standard

TEMPERATURE & RELATIVE HUMIDITY

GAS & SMOKE DETECTION

60 AX-GS-CD-T81M Modbus Carbon Dioxide Sensors 61 AX-GS-CM-V Carbon Monoxide Sensors 61 AX-GS-CD-T51S Carbon Dioxide Switch - LED Indication 62 AX-GS-FT Smoke Detector Fast Sampling Tubes 62 AX-GS-F134A Freon Gas Sensors

63 AX-GS-TC Gas Detection System, Modbus Output

AIR VELOCITY, FLOW & LIQUID LEVEL

67 AX-WS Weather Station - Fully Customiseable 69 AX-UL-PSW Ultrasonic Pump Level Control System Hydrostatic Level Transmitters 70 AX-HI

OCCUPANCY & LIGHTING

Wall Mount Occupancy with Volt Free Contact 72 AX-OC

41 AX-RH-RES Resistive Output Humidity Sensor

Humidistats

EMERGENCY, WATER LEAK & DISPLAYS 43 AX-CDM Condensation / Chilled Beam Monitor

COMMISSIONING TOOLS & BESPOKE PRODUCTS

86 AX-REF-VI Analogue Output Reference Device with 24V Range of Commissioning Tools

INPUT OUTPUT MODULES

Annicom designs and manufactures an extensive range of Input Output modules.

Use our range to convert to or from almost any control signal, to multiplex a wide variety of inputs, or interface with a large range of legacy devices to avoid expensive installation.

Our range extends to manufacturer specific modules for Siemens and Honeywell to meet their project requirements. Annicom's aim is to be able to convert any BMS signals to, or from, an analogue signal.

- 5 Multiplexers & Switching modules Digital & Analogue
- 6 7 Raise/Lower & Signal Conversion modules
 - 8 Rescaling, Limiting & Splitter modules
 - 9 Phase Cut modules & Analogue to Pneumatic
- 10 11 Relay modules
 - 12 Multi-Mode & Advanced Relay modules
 - 13 Timers & Phase Failure Relays

DID YOU KNOW?

Annicom Multi-Mode relays have the most operating modes of any in the industry. Functions include circular and linear sequencing, Raise/Lower and Binary.

INPUT OUTPUT MODULES

MULTIPLEXERS & SWITCHING MODULES - DIGITAL & ANALOGUE

AX-DIM4-MI / DIM6-MI



Calculates a single analogue value based on the status of the four or six digital input signals. This signal can then be decoded within a BMS controller to give the status of each individual digital Input. The module is designed as a direct replacement for the equivalent "Trend" module.

- Can be powered from 24Vac/dc
- Jumper-selectable voltage or current output
- Inputs can be volt free or 24Vac/dc

Order Codes	Description	Single	15 (Boxes)
AX-DIM4-MI5	Four channel digital input Multiplexer	£18.00	£17.00
AX-DIM6-MI-V	Six channel Multiplexer, voltage output	£33.00	£32.00
AX-DIM6-MI-I	Six channel Multiplexer, current output	£33.00	£32.00

SPECIFICATION						
Input:	DIM4	4 x Volt free or 4x 24Vac/dc or combination				
	DIM6 6 x Volt free or 6x 24Vac/dc or combination					
Output: Voltage 0-10Vdc max load 10mA						
Current 0 to 20mA (max load resistance 470Ω)						

AX-DIM5R



Multiplexes five digital inputs into one floating resistance output. The resistance output range is designed to interface directly with the TAC Micronet range of controllers but can also be used with any similar compatible controller.

- LED Status indication
- For TAC Micronet Controller (or similar)
- 22.1kΩ offest jumper

SPECIFICATION						
Power Supply:	wer Supply: 24Vac/dc ±15% (40mA max @ 24Vdc)					
Input:	5x Volt free or 5x 24Vdc or combination					
Output tolerance:	±2Ω of nominal maximum					
Offset:	22.1kΩ					
Output:	Rp off	779.9 to 1557.9Ω				
	Rp on	752.4 to 1455.3Ω				

Order Codes		List Price
AX-DIM5R	Five channel Multiplexer, resistance output	£33.00

AX-VMUX / VDEMUX

ANALOGUE INPUT MULTIPLEXER / DEMULTIPLEXER - 4 INPUTS / OUTPUTS



Multiplex / De-Multiplex four 0-10V input signals over two analogue lines, effectively doubling the number of available analogue outputs from a BMS. Additional AX-VMUX can be cascaded using one additional analogue line each, each effectively giving an additional 3 analogue outputs.

The VMUX can be used in conjunction with the VEDUMUX to transfer many 0-10V signals over a small number of wires, significantly reducing cabling runs.

Order Codes		List Price
AX-VMUX	Four channel Analogue Input Mulitplexer	£27.00
AX-VDEMUX	Four channel Analogue De-Multiplexer	£27.00

- Can be powered from 24Vac/dc
- Combine modules for many signals over few lines 4 x 0-10V inputs / outputs

	OLEGITION			
Power Supply:	24Vac/dc ±15% (40mA max @ 24Vdc)			
Selection:	1-4Vdc max load 5mA (Input or Output)			
AX-VMUX				
Input:	4 x 0-10Vdc max load 1mA			
Output:	0-10Vdc max load 5mA			
	AX-VDEMUX			
Input:	1 x 0-10Vdc max load 1mA			
Output:	4 x 0-10Vdc max load 5mA			

SPECIFICATION

AX-ASM



The AX-ASM analogue switch module switches low-voltage AC or DC signals. The module has two changeover contacts that can be switched every 15 or 30 seconds (set by a jumper) or remotely with a volt free contact.

The AX-ASM is ideal for multiplexing low voltage input signals. To aid commissioning a jumper is provided to select either of the inputs.

- Long-life relay, 100 million operations minimum
- Automatic switch-over, remote or timed selection
- Small-form factor
- Ideal for multiplexing low-voltage input signals
- LED indication

				SPECIFICATION		
0 1 0 1			1	Power Supply:	24Vac/dc ±15% (40mA max @ 24Vdc)	
Order Codes		List Price		Input / Output:	0-10Vdc or 0-24Vac < 10mA.	
AX-ASM	Analogue Switching module	£25.00		Select Input:	VFC or open-collector to switch 24Vdc @ 10mA	



RAISE / LOWER & SIGNAL CONVERSION MODULES

AX-ARL

ANALOGUE TO BAISE / LOWER CONVERTERS



The AX-ARL range converts a 0-10V dc input signal into a Raise/Lower relay output pair. The modules can be configured for two variable and one fixed range per unit.

Applications include the control of window actuators or Raise/Lower actuators, in conjunction with a BMS or stand alone proportional controller eg. Retrofitting.

Order Codes		List Price
AX-ARL	Raise/Lower control module	£18.00
AX-ARL2	Raise/Lower control module	£18.00
AX-ARL-SSR	Raise/Lower solid state triac control module	£32.00
AX-ARL2-SSR	Raise/Lower solid state triac control module	£32.00

EEATIIDES

- One fixed and two adjustable time ranges
- Low noise zero crossing outputs
- Automatic 24 hour reset
- Complete with DIN rail carrier

SPECIFICATION							
Power Supply: 24Vac 50/60Hz							
0-10Vdc (1mA max)							
2 x SPCO (or SSR Triac o/p)							
12A @ 250Vac (res)							
Raise/Lower Times: Variable 1 Fixed Variable 2							
ARL 90-300 secs 210 secs 30-150 secs							
ARL2 10-30 secs 90 secs 60-120 secs							
	24Vac 5 0-10Vdd 2 x SPC 12A @ 2	24Vac 50/60Hz 0-10Vdc (1mA max) 2 x SPCO (or SSR Tr 12A @ 250Vac (res) : Variable 1 ARL 90-300 secs	24Vac 50/60Hz 0-10Vdc (1mA max) 2 x SPCO (or SSR Triac o/p) 12A @ 250Vac (res) Variable 1 Fixed ARL 90-300 secs 210 secs				

AX-RLA- / RL230ACT

BAISE / LOWER TO ANALOGUE CONVERTERS



The AX-RLA isolates and converts a Raise/Lower input signal into a 0-10 volt analogue output. The unit provides 16 Raise/Lower cycle times and a manual output override for commissioning.

Input load resistors can be selected for triac switching. The unit also provides a 24V supply feed through for valve actuators etc. to simplify cabling.

Order Codes		List Price
AX-RLA-AC	Raise/Lower to Analogue module 24Vac	£35.00
AX-RLA230ACT	Raise/Lower to Analogue module 230Vac	£59.00

FEATURES

- 16 standard actuator timing ranges
- 24Vac to drive the actuator
- 0-10Vdc output

SPECIFICATION					
Power Supply:	RLA-AC	24Vac @ 50/60Hz ±15%			
	RLA230 230Vac @ 50/60Hz				
Input:	RLA Relay contact, transistor, triac, 24Vac				
	RLA230 230Vac Raise/Lower				
Input Ranges:	30 up to 480 seconds (typical actuator times)				
Output:	0-10V @ 10mA max				
	24Vac to drive the valve actuator				

AX-VI / ARM / ABC / VSM

SIGNAL CONVERSION MODULES (ANALOGUE TO ANALOGUE)



A series of modules which can convert current to voltage (or vice-versa) and also opto-isolate the input signal from the output to the BMS or other controller. The new AX-ABC converts an analogue signal to 0-10Vdc and can also power the signal loop.

FEATURES

- Powered from standard 24Vac supply
- Huge range of analogue conversions
- Small form factor
- Fits standard Din Rail
- Offers cost-saving when retrofitting

Order Codes		List Price
AX-ABC	Analogue to 0-10Vdc conversion module	£18.00
AX-ABC-Dual	Two Analogue to 0-10Vdc conversion module	£34.00
AX-VI	0-10Vdc to 4-20mA conversion module	£24.00
AX-VSM	0-60Vdc to 0-10Vdc scaling module	£22.00
AX-ARM	Analogue Rescaling module	£70.00

SPECIFICATION		
Power Supply:	24Vac/dc ±15%	
Input: Refer to data sheets		
Output:	Refer to data sheets	

AX-DAOM

DUAL ANALOGUE OUTPUT MODULE (SIGNAL SPLITTER)



The AX-DAOM converts a 0-10Vdc or 2-10Vdc input signal to two 0-10Vdc or 2-10Vdc output signals, with an adjustable deadband. Either output can be inverted via a jumper.

Applications include providing Heating and Cooling signals from a single 0-10Vdc output.

Order Codes		List Price
AX-DAOM	Dual Analogue Output module	£28.00

FEATURES

- Adjustable deadband around 5V
- Can be powered from 24Vac/dc
- LED Status indication
- Reverse functions for each output

	SPECIFICATION
Power Supply:	24Vac/dc ±10% (40mA max @ 24Vdc)
Input:	0-10Vdc
Output:	2 x 0-10Vdc max load 10mA each
Deadband:	Adjustable around 5V

INPUT OUTPUT MODULES

RAISE / LOWER & SIGNAL CONVERSION MODULES

AX-PTA / MPTA

PULSE-WIDTH TO ANALOGUE CONVERTERS



The AX-PTA converts a pulse-width input signal into a 0-10 volt analogue output. Various pulse-widths are selectable. The MPTA features input isolation.

FEATURES

- 24Vac/dc powered
- Opto-electronically isolated (MPTA)
- 0-10Vdc output at max load 10mA

Order Codes		List Price
AX-PTA	Pulse-width to 0-10Vdc module	£38.00
AX-MPTA	Pulse-width/Pulse to analogue module	£80.00

SPECIFICATION			
Power Supply: 24Vac ±15%			
Input: Isolated		12 or 24Vac/dc or pulse	
Non-isolated		12 or 24Vac/dc or pulse or VFC	
Output:	PTA	0-10Vdc @ max load 10mA	
	MPTA	0-10V and 4-20mA	

AX-WMPAC

WATER METER PULSE TO ANALOGUE (AVERAGING MODULE)



The AX-WMPAC converts the pulse signal output from a water metre into a 0-10 volt analogue output. Various maximum flow rate and litres per pulse options are easily selectable.

The unit is perfect for connecting Water Meters to BMS systems when an expensive Integrator solution is not required. An enclosure mounted option is available.

Order Codes		List Price
AX-WMPAC	WM Pulse to analogue converter - DIN rail	£38.00
AX-WMPAC-E	WM Pulse to analogue converter -IP65 enclosure	£48.00

FF A TILRES

- 24Vac or dc powered
- 8 Selectable maximum flow settings
- 4 Selectable litre/pulse settings
- Significant savings over Integrator solutions

SPECIFICATION		
Power Supply:	24Vac/dc ±15%	
Input:	Reed switch pulse	
Output:	0-10Vdc @ 10mA maximum load	
Litre/Pulse settings:	1/10/100/1000 litre/pulse	
Maximum Flow settings:	3 to 80m³/hr	
Ambient Range:	0 to 50°C	

AX-RIM

RESISTANCE TO ANALOGUE CONVERTER



The AX-RIM135 and AX-RIM1000 modules enable an existing resistance signal to be monitored by a BMS Controller. These modules convert either a 0-1350hm or a 1K0hm signal into a 0-10Vdc output.

Applications include directly connecting Boilers, Damper Actuators and Setpoints, to a BMS Controller.

- 24Vac or dc powered
- Two standard resistance ranges available
- Allows a potentiometer to be used with a broad range of systems
- Powerful retrofitting solution

Order Codes		List Price
AX-RIM135	0 to 135Ω Resistance Input module	£26.00
AX-RIM1K	0 to 1kQ Resistance Input module	£26.00

SPECIFICATION		
Power Supply:	24Vac/dc ±10%	
Standard Input: 135Ω or $1k\Omega$		
Output:	0-10Vdc	

AX-ROM

ANALOGUE / PULSE / FLOATING POINT TO RESISTANCE CONVERTER



The AX-ROM135 and AX-ROM1K modules enable an Analogue, Pulse, or Floating Point Signal and convert to either a 0-1350hm or 1Kohm Proportional Resistive output signal. The output resistance signal does not wrap around if the input signal exceeds the highest or lowest selected input value. Both units are powered from 24Vac or 24Vdc, and feature LED indication.

Order Codes		List Price
AX-ROM135	0 to 135Ω Resistance Output module	£175.00
AX-ROM1K	0 to 1kΩ Resistance Output module	£175.00

FFATURES

- 24Vac or dc powered
- Two resistance ranges available as standard

SPECIFICATION		
Power Supply: 24Vac/dc ±10%		
Input:	0-10Vdc	
Standard Outputs:	135Ω or 1kΩ	
Optional Outputs: $ 270\Omega, 500\Omega, 1.5k\Omega, 2k\Omega, 3k\Omega, 4k\Omega, 5k\Omega \\ 10k\Omega, 20k\Omega, 40k\Omega $		
Ambient Range: 0 to 50°C		

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99



RESCALING, LIMITING & SPLITTER MODULES

AX-DVRM



Accepts two 0-10V inputs and rescales them as set before being output as two rescaled 0-10V signals.

- 2 independent 0-10V input/outputs
- Multi-turn presets to set rescaling values

Order Codes		List Price
AX-DVRM	Dual Voltage Rescaling module	£29.00

SPECIFICATION			
Power Supply:	24Vac/dc ±15%		
Input:	2 x 0-10Vdc max load 1mA		
Output:	2 x rescaled 0-10Vdc max load 5mA		

AX-ALM

Accepts three 0-10V input signals which are then limited to within the set range before being output as limited 0-10V signals.

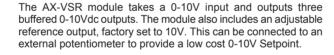
- 3 independent 0-10V inputs
- Adjustable maximum limit of each input
- Adjustable minimum limit of each input



Order Codes		List Price
AX-ALM	Analogue Limiting module	£29.00

SPECIFICATION			
Power Supply:	24Vac/dc ±15%		
Input:	3 x 0-10Vdc max load 1mA		
Output:	3 x 0-10Vdc max load 5mA		

AX-VSR



- 3 buffered 0-10V outputs
- Can be powered from 24Vac/dc
- Converts external potentiometer to 0-10V



Order Codes		List Price
AX-VSR	Voltage Splitter and Reference module	£29.00

SPECIFICATION		
Power Supply:	24Vac/dc ±10% (40mA max @ 24Vdc)	
Input:	0-10Vdc	
Alternative Input:	1 x external potentiometer - min. 10Kohm	
Output:	3 x buffered 0-10Vdc @ 5mA max load	

AX-CSM



This module will accept a single analogue input and split that signal into two, three or four, 4-20mA outputs. The outputs are always scaled identically and will always track each other. The unit can also power a 24Vdc current loop signal.

		U		

- Field adjustable analogue input ranges 2, 3 or 4 x 4-20mA outputs
- Din rail mounting

Order Codes		List Price
AX-CSM-2	Current Splitter module analogue to 2 x 4-20mA	£49.00
AX-CSM-3	Current Splitter module analogue to 3 x 4-20mA	£54.00
AX-CSM-4	Current Splitter module analogue to 4 x 4-20mA	£59.00

SPECIFICATION			
Power Supply:		24Vdc and 24Vac 50/60Hz ±15%	
Inputs:	Voltage	0-5Vdc, 0-10Vdc, 2-10Vdc	
	Current	0-20mA, 4-20mA, 0-10mA	
Output:		2,3 or 4 x 4-20mA	
Supply Current: Output Load: Ambient Range:		100mA max	
		500Ω max	
		0 to 50°C	

INPUT OUTPUT MODULES

PHASE CUT MODULES & ANALOGUE TO PNEUMATIC

AX-PCM



A range of modules which convert a 0-10Vdc signal into a 0-20 phase-cut signal, predominantly used to drive older Staefa control valves. Versions are available to suit different loads.

- Opto-isolated
- Output can be boosted using the AX-MPCA amplifier (PCM2-30 only)

Order Codes		List Price
AX-PCM2-30i	Dual channel 30VA phase cut module	£42.00
AX-PCM120i	Single channel 120VA phase cut module	£70.00

SPECIFICATION					
Power Supply: 24Vac ±10%					
	PCM120i PCM2-30i				
Input Signal:	0-10Vdc	2 x 0-10Vdc			
Phase Cut Output:	0-20V	2 x 0-20V			
Rating:	120VA	2 x 30VA			

AX-MPCA



An amplifier module which boosts the output of one channel of a AX-PCM2-30i to drive loads up to 60VA. One can be applied to each of the channels, giving a maximum total of two 60VA channels

FEATURES

- 60VA phase-cut output
- Designed to operate with the AX-PCM2-30 phase cut module

Order Codes		List Price
AX-MPCA	Phase Cut Amplifier module	£45.00

SPECIFICATION	
Power Supply:	24Vac
Output Supply:	0-20V Phase cut - 60VA
Input Signal:	20V Phase cut from AX-PCM-2-30i
Terminals:	Rising clamp for 0.5-2.5mm² cable

AX-AMMM / MMA-6



The AX-AMMM accepts up to five 0-10V signals and provides four 0-10V outputs representing the average, maximum, minimum and middle value of the inputs.

- Min, max, middle and average of 2/3/4/5 inputs
- Differential above and below of inputs
- Maximum and average differential of 2/3/4 inputs above and below Setpoint 10

Order Codes		List Price
AX-AMMM	5 Ch Minimum, maximum & averaging module	£36.00
AX-MMA-6	6 Ch Minimum, maximum & averaging module	£94.00

SPECIFICATION	
Power Supply:	24Vac/dc ±15%
Inputs:	5 x 0-10Vdc input 1mA max
Outputs:	4 x 0-10Vdc outputs 5mA max

AX-EPC



Analogue to pneumatic convertor which converts an analogue input signal to a proportional pneumatic output, modulating its control valve(s) to regulate the branch line pressure to the set point determined by the input signal.

- Field selectable offset and span
- Field adjustable pressure output ranges Field selectable analogue input ranges
- Closed loop control

			SPECIF	ICATION
Order Codes		List Price	Power Supply:	24Vac/dc 50/60Hz
AX-EPC	Single Valve Analogue to Pneumatic 0-15psig	£105.00	Inputs:	0-10Vdc, 0-15Vdc,
AX-EPC-G	Single Valve Analogue to Pneumatic + Gauge 0-15psig	£115.00	F	0-20mA @ 250Ω
AX-EPC2	Dual Valve Analogue to Pneumatic 0-15psig	£125.00	Air Supply:	Max 25psig Min 18psig
AX-EPC2-G	Dual Valve Analogue to Pneumatic + Gauge 0-15psig	£135.00	Output Pressure Range:	0-10, 0-15, 0-20psig jumper selectable



SINGLE RELAY MODULES

AX-RM1



A range of single pole and multi-pole changeover relays designed for use in control applications. The 12Vdc version has a sensitive coil that can be driven directly by most BMS Controllers.

Order Codes		Single	10 (Boxes)
AX-RM1-12DC	12Vdc sensitive coil 10A@250Vac (res)	£3.25	£3.00
AX-RM1-24AC	24Vac coil 12A@250Vac (res)	£3.70	£3.40
AX-RM1-24DC	24Vdc coil 12A@250Vac (res)	£3.65	£3.40
AX-RM1-230AC	230Vac coil 12A@250Vac (res)	£5.00	£4.95

- Can convert a BMS output to digital VFC
- Large range of coil options
- Complete with DIN rail base
- Unit comprises full assembly of relay, base and clip.

SPECIFICATION	
Output Contacts:	1 x SPCO
Ambient Range:	-25 to +85°C



2, 3 and 4-pole changeover relays designed for use in control applications.

Order Codes		List Price
AX-RM1-2-24AC	2 x 8A@250Vac (res) 24Vac coil	£4.50
AX-RM1-2-230AC	2 x 8A@250Vac (res) 230Vac coil	£6.00
AX-RM1-3-24AC	3 x 10A@250Vac (res) 24Vac coil	£5.25
AX-RM1-3-230AC	3 x 10A@250Vac (res) 230Vac coil	£7.00
AX-RM1-4-24AC	4 x 6A@250Vac (res) 24Vac coil	£5.50
AX-RM1-4-230AC	4 x 6A@250Vac (res) 230Vac coil	£7.50

- Can convert a BMS output to digital VFC
- 2, 3 and 4-pole variants
- Range of voltage options 24Vac, 240Vac
- DC options available on request
- Complete with DIN carriers

SPECIFICATION	
Output Contacts:	2, 3 or 4 Pole
Ambient Range:	0 to 50°C



The AX-RM1F is a useful alternative to traditional Single Pole 12Vdc relay modules, with the added advantages of ON/OFF/AUTO Links, with a fixed switch point of 5V and LED Indication.

The AX-RM1F is designed to provide a manual override of the output from a BMS Controller (or similar) and is particularly useful for commissioning or temporary control applications.

Order Codes		List Price
AX-RM1F	Single Relay module - Fixed switchpoint	£12.00

- Can convert a BMS output to digital VFC
- On/Off auto links
- DIN rail mount

SPECIFICATION	
0-10Vdc <1mA	
1 x SPCO	
12A @ 250Vac (res)	
5Vdc	
ON/OFF/AUTO	

AX-RM1AB



The AX-RM1AB is an advanced Single Relay module that offers adjustable Switch points (on and off) and a buffered 0-10Vdc output for controlling secondary devices from the same 0-10Vdc output.

An AUTO/ON/OFF Jumper Links is provided for commissioning or manual override purposes, with LED indication.

Order Codes		List Price
AX-RM1AB	Single Relay module Adjustable Switchpoints	£15.50

- Can convert a BMS output to digital VFC
- Adjustable switching threshold On & Off
- Contact rating 12A @ 230Vac resistive
- DIN rail mount

SPECIFICATION	
Power Supply:	24Vac/dc ±10%
Output Contacts:	1 x SPCO
Contact Rating:	12A @ 250Vac (res)
Switching Point:	0.1 to 10Vdc on & off
Input Signal:	0-10Vdc < 1mA
Buffered Output:	0-10Vdc @ 5mA max

AX-RM1MB

SINGLE RELAY MODULE - MODBUS ENABLED - HIGH LOAD



Especially suited to switching AC loads, the AX-RM1MB offers easy on/off control of devices that are not ModBus enabled. The module features an exceptionally high in-rush current rating (16A) for switching high AC loads. Direct connection via ModBus RTU (RS485) makes the RM1MB an attractive prospect, given its especially competitive price point. Annicom's proprietary design ensures cool running, with no additional heatsinks required.

Order Codes		List Price
AX-RM1MB	Modbus Switching module	£65.00

- High In-Rush Current Rating (16A) Switch Devices On/Off via Modbus
- No Bulky Heatsinks
- High Quality Relays

SPECIFICATION		
Power Supply:	24Vac/dc ±10%	
Output Contacts:	1 x SPCO	
Inrush Rating:	16A	
Constant Contact Rating: 12A @ 250Vac (res)		
Input Signal:	ModBus RTU RS485	

INPUT OUTPUT MODULES

RELAY MODULES

AX-RM2T-SSR



The AX-RM2T-SSR converts a 0-10V dc input signal into a Triac output pair. The module can be configured for 4 modes of operation.

The unit is particularly useful for use with loads known to have a high inrush current (the unit switches at the zero-crossing) and noise sensitive environments prohibit the use of traditional relays.

Applications include the control of windows, valve or damper actuators, in conjunction with a BMS Controller.

Order Codes		List Price
AX-RM2T-SSR	Two Stage Triac output module 0 to 30 secs	£29.00
AX-RM2T2-SSR	Two Stage Triac output module 0 to 240 secs	£32.00

- Integrated timer function
- 2 Triac output
- Totally silent operation
- For high inrush currents
- LED Indication of output status

SPECIFICATION		
Power Supply:	24Vac/dc ±10%	
Output:	2 x Triacs	
Output Rating:	2.1 amps max per output @ 24 or 230Vac	
Input Signal:	0-10Vdc (1mA max)	
Consumption:	80mA typical @ 24Vdc	
Mode of Operation:	Hi/Lo, Raise/Lower, Binary, Timer	
Timer:	0 to 30 (-2 240 seconds per stage)	
Manual Override:	ON/OFF/AUTO	

AX-FRM3 / FRM3+1



Designed to take low-rated contacts from digital thermostats and output high-current relay outputs for switching fan coil motors. Particularly useful with digital or low current outputs that cannot control the fan directly. Output contacts are interlocked.

The +1 variant adds an additional, independent relay for highcurrent switching of on/off valves, where the thermostat output is insufficient

Order Codes		List Price
AX-FRM3-230	Fan Speed - Three relay module 230Vac - DIN	£17.00
AX-FRM3-24	Fan Speed - Three relay module 24Vac - DIN	£16.00
AX-FRM3+1-230	FRM3-230 +1 Relay Output	£21.00
AX-FRM3+1-24	FRM3-230 +1 Relay Output	£20.00
AX-FRM3-230E	FRM3-230 IP65 Enclosure mounted	£21.00
AX-FRM3-24E	FRM3-24 IP65 Enclosure mounted	£20.00

- 3 x 230Vac input (with common neutral)
- 3x or 4x SPCO relay output
- Different coil voltages available on request

SPECIFICATION		
Input Signal:	3 x 230Vac or 24Vac	
Output Contacts:	3x or 4x SPCO	
Contact Rating:	12A @ 250Vac (res)	
Ambient Range:	0 to 50°C	

25VA or 30VA Transformer with 2 x 24Vac

terminals

AX-FRM3-TXx

FAN SPEED RELAY MODULE - 3 / 4 STAGE + 25/30VA TRANSFORMER



Combines the 230Vac trans supplies to actuators etc. without the need for an external transformer.

The +1 variant adds an additional, independent relay for highcurrent switching of on/off valves, where the thermostat output is insufficient.

e functionality of the AX-FRM3 with an encapsulated	FEATURES
sformer with 2 x 24Vac outputs, providing power	3 x 230Vac input (with common neutral)
actuators etc. without the need for an external	3 x SPCO relay output

Order Codes List Price AX-FRM3-TX25 Fan Speed 3 Relay module with 25VA Transformer £33.00 AX-FRM3-TX30 Fan Speed 3 Relay module with 30VA Transformer £35.00 AX-FRM3+1-TX25 FRM3 with 25VA Transformer + 1 Relay Output £36.00 AX-FRM3+1-TX30 FRM3 with 30VA Transformer + 1 Relay Output £39.00

SPECIFICATION		
Power Supply:	230Vac for transformer	
Input Signal:	3 x 230Vac or 24Vac	
Output Contacts:	3x or 4x SPCO	
Contact Rating:	12A @ 250Vac (res)	
Transformer:	230 to 24Vac - 25VA or 30VA	
Ambient Range:	0 to 50°C	

AX-ORM4C



The AX-ORM4C is designed for applications independent manual override of digital output channels from BMS Controllers. The outputs can be switched without a controller being present which makes the AX-ORM4C useful for temporary control or commissioning. Link selection enables up to 4 outputs to be switched from Input 1.

Features include LED indication of Power On and LED indication for each relay state

Order Codes		List Price
AX-ORM4C	Four-Stage Override Relay module	£42.00

- LED Status indication of relays
- Override function to facilitate easier commissioning
- Relays activated from standard controller outputs

S P	ECIFICATION
Power Supply:	24Vac/dc ±10%
Must Operate:	5Vdc
Output Contacts:	4 x SPCO
Contact Rating:	12A @ 250Vac (res)
Input Signal:	4 x 0-10Vdc (2mA max)
Manual Override	3 x ON/OFF/AUTO
Ambient Range	0 to 50°C



MULTI-MODE & ADVANCED RELAY MODULES

AX-RM2L



Our most advanced relay module yet, the new AX-RM2L offers superb flexibility, and easy setup via LCD. The intuitive menu system allows you to set individual switching points of each of the two relays, which can either share one 0-10Vdc or accept one 0-10Vdc each.

The RM2L also includes all the features of the AX-RM2T; Raise/Lower or pump changeover, cascade or binary control of two heating or cooling stages and single/dual stage timer delay can easily be setup via the LCD.

Order Codes		List Price
AX-RM2L	Advanced Two Relay module with LCD	£26.00

- All the functions of the AX-RM2T
- Individually Configured Relay switch on/off points
- Accepts one or two 0-10Vdc inputs
- Backlit LCD for easy commissioning

SPECIFICATION		
Power Supply:	24Vac/dc ±10%	
Output Contacts:	2 x SPCO	
Contact Rating:	12A @ 250Vac (res)	
Input Signal:	1x or 2x 0-10Vdc (1mA max)	
Mode of Operation:	1) Individual Switchpoints 2) Raise/Lower 3) High/Low 4) Binary 5) Single stage timer 6) Two stage timer	

AX-RM2T



Provides two switched outputs from a single 0-10Vdc input (from a BMS or similar). AXIO Relay modules include an impressive array of modes, the AX-RM2T offers Raise/Lower, plant/pump changeover, cascade or binary control of two heating or cooling stages. The module can also be configured as a single/dual stage Timer.

			BR
Order Codes		1+	20+
AX-RM2T	Dual Relay module with timer 0 to 30s	£14.00	£13.50
AX-RM2T2	Dual Relay module with timer 0 to 240s	£15.00	£14.00
AX-RM2S	Dual Relay Sequecner with timer 0 to 30s	£18.00	£17.00

- Multiple operating modes
- LED Indication of output status
- Manual override jumpers to aid commissioning

SPECIFICATION		
Power Supply:	24Vac/dc ±10%	
Output Contacts:	2 x SPCO	
Contact Rating:	12A @ 250Vac (res)	
Input Signal:	0-10Vdc (1mA max)	
Mode of Operation:	1) Raise/Lower. 2) High/Low. 3) Binary. 4) Single stage timer. 5) Two stage timer	

AX-RM3M / RL3R

A Triple Relay module with seven jumper-selectable operating modes and time delay. The module can be used to control three-stage loads, as a fan/heat/cool switch and includes a reverse mode and time delay

The AX-RL3R utilises a Raise/Lower input rather than a 0-10Vdc signal.

Order Codes		List Price
AX-RM3M	Three-Stage Multi-Mode Relay module	£22.00
AX-RL3R	Raise/Lower input to 3 Stage Relay module	£32.00

- Multiple operating modes
- LED Indication of output status
- Manual override jumpers to aid commissioning

SPECIFICATION		
Power Supply:	24Vac/dc ±10%	
Input Signal - RL3R:	12/24Vac/dc or VFC Raise/Lower	
Output Contacts:	3 x SPCO	
Contact Rating:	12A @ 250Vac (res)	
Input Signal - RM3M:	0-10 or 2-10Vdc (2mA max)	
Modes of Operation:	7	
Time delay:	0 to 60 seconds	

AX-RM4M



Two versatile relay output modules with multiple operating modes. One unit can be configured for up to nine modes of operation to control four independent loads from a single 0-10 or 2-10Vdc signal. The signal can be reversed. Can be connected to the AX-RM6M to provide ten switched stages.

The AX-RM4AB accepts a 0-10Vdc input with four independent adjustable on/off switchpoints.

Order Codes		List Price
AX-RM4M	Four-Stage Multi-Mode Relay module	£30.00
AX-RM4AB	Four Relay module 4 adjustable switchpoints On & Off	£48.00

- Multiple operating modes
- LED Indication of output status
- Control four independent loads from a single analogue signal

SPECIFICATION		
Power Supply:	24Vac/dc ±10%	
Output Contacts:	4 x SPCO	
Contact Ratings:	12A @ 250Vac (res)	
Input Signal:	0-10 or 2-10Vdc (2mA max)	
Modes of Operation:	9 (RM4AB - 1 mode)	
Time Delay:	0 to 60 seconds (RM4M only)	

AX-RM6M



Accepts a 0-10Vdc input and provides six switched outputs. Up to nine different modes of operation are available and the signal can also be reversed. Can be connected to the AX-RM4M to provide ten switched stages.

Order Codes		List Price
AX-RM6M	Six-Stage Multi-Mode Relay module	£45.00

- Multiple operating modes LED Indication of output status
- Manual override jumpers to aid
- commissioning
 Contact rating 12A @ 250Vac (resistive)

SPECIFICATION		
Power Supply:	24Vac/dc ±10%	
Output Contacts:	6 x SPCO	
Contact Ratings:	12A @ 250Vac (res)	
Input Signal:	0-10 or 2-10Vdc (2mA max)	
Modes of Operation:	9	
Time Delay:	0 to 60 seconds	

INPUT OUTPUT MODULES

TIMERS & PHASE FAILURE RELAYS

AX-DT-V0DD



This range of Digital Timers has either one SPDT or two DPST contacts and either eight or 17 functions and are designed for 24 to 240Vac/dc supply. The units have a slim profile and are designed for DIN rail mounting.

- Compact 17.5mm width Multi-Voltage 24 to 240Vac/dc
- 3 digit LCD for present time and run time
- Multi-functional (8 or 17 functions)

			Power Supply:	24 to
Order Codes		List Price	Timing Ranges:	0.1 se
Cruci Couco	LIST TICC		Switching Contacts:	8A @
AX-DT-V0DDTS	Digital Timer 1 x C/O 8 functions	£25.00		_
			Relay Output:	V0DD
AX-DT-V0DDTD	Digital Timer 1 x NO 8 functions	£25.00		V0DD
AV DT VODDTO4	District Times 4 0/0 47 for ations	000.00		-
AX-DT-V0DDTS1	Digital Timer 1 x C/O 17 functions	£28.00	Functions;	V0DD
AX-DT-V0DDTD1	Digital Timer 1 x NO 17 functions	£28.00		VODE

List Price

£24.00

£24.00

SPECIFICATION		
Power Supply:	24 to 240Vac/dc -15 to	+10%
Timing Ranges:	0.1 second to 999hrs	
Switching Contacts:	8A @ 240Vac resistive	
Relay Output:	V0DDTS & V0DDTS1	1 x C/O SPDT
	V0DDTD & V0DDTD1	2 x NO DPST
Functions;	V0DDTS & V0DDTD	8
	V0DDTS1 & V0DDTD1	17

AX-AT-1 CMDTx

Order Codes AX-AT-1CMDT0

AX-DT-V0DDTD



This range of Analogue Timers have one SPDT contact and ten functions and are designed for 12 to 240Vac/dc supply. The units have a slim profile and are designed for DIN rail mounting.

- Compact 17.5mm width
- Multi-Voltage 12 to 240Vac/dc
- 0.1 sec to 100hrs
- 10 functions

SPECIFICATION		
Power Supply:	14 to 240Vac/dc -15 to +10% 50/60Hz	
Power Consumption:	2VA	
Timing Ranges:	0.1 second to 100hrs	
Setting Accuracy:	±5% of full scale	
Relay Output:	1 x C/O SPDT	
Switching Contacts:	8A @ 240Vac resistive 5A @ 24Vdc	
LED Indication:	Green LED power on. Yellow LED relay on	
Initiate Time:	100msec	

AX-SM-50x-MGx3



These Supply Monitoring Relays have LED indication of all

Analogue Timer 10 functions

Analogue Timer 10 functions

117 0 7
standard parameters. The units are designed for 3 phase 4 wire
240Vac or 415Vac or for a single phase 240Vac and have two
change over contacts (DPDT). The units are DIN rail mounted.

	Order Codes		List Price
	AX-SM500-MG73Bx	3 Phase, 240Vac, UV/OV, single phasing protection. Adjustable ON/OFF delay time 2 x C/O	£39.00
	AX-SM501-MG53Bx	3 phase 415Vac UV/OV/ASYS/ph reverse c/w adjustable ON or OFF delay time 2 x C/O	£43.00
	AX-SM501-MG63Bx	3 phase 240Vac UV/OV phase protection c/w	£43.00

- Adjustable On or Off delays
- Voltage 240 to 415Vac versions
- LED indication for all faults

	SPECI	FICATION		
Power Consumption: Relay Output: Switching Contacts:		3 phase 240Vac or 415Vac		
		1 phase 240Vac		
		5VA 415Vac = 10VA		
		2 x C/O DPDT		
		5A @ 250Vac/28Vdc resistive		
		55% to 95% of Un		
	OV	105% to 125% of Un		
	Asy	10%		
1.1000		Yes		
		7V ±2V of trip voltage (factory set)		

AX-SM175-Mx



These compact Phase Failure and Supply Monitoring Relays can control the correct sequence of three phases and own supply voltage. The units are multi-voltage from three x 208 to 480Vac and have one SPDT contact. The unit has LED indication for all faults and for setting change and are designed for DIN rail mounting.

Order Codes		List Price
AX-SM175-MK21D5	Phase Sequence	£35.00
AX-SM175-MC21D5	Phase Sequence, Asy & phase loss monitoring	£31.00
AX-SM175-MA21DN	Phase Sequence, Asy monitoring	£31.00
AX-SM175-MD21DF	Phase Sequence, UV & OV monitoring	£34.00
AX-SM175-MG21DH	Phase Sequence, Asy & UV/OV - Off delay (5s)	£34.00
AX-SM175-MG21DF	Phase Sequence, Asy & UV/OV - On delay (5s)	£34.00

- Compact 17.5mm width Multi-Voltage 208 to 480Vac/dc
- LED indication for all faults

SPECIFICATION				
Supply Voltage:	3 phase 3 wire 208 to 480Vac 45/65Hz			
Power Consumption:	3VA			
Setting Accuracy:	±5% of full scale			
Relay Output:	1 x C/O SPDT			
Switching Contacts:	5A @ 240Vac/30Vdc resistive			

CONTROLLERS

A large range of intelligent controllers to suit any application. From Proportional, PI and Heater Battery Control to complete Fan Coil and Package Unit Control solutions.

In addition to Annicom's bespoke products, the dedicated design team is constantly developing innovative controllers; recently introducing Window Actuator, Free Cooling, Fan Changeover and Package Unit Controllers.

- 15 16 Power Controllers & Solid State Relays
 - 17 Proportional, Free Cooling & Window Controllers
 - 18 Fan Coil Controllers
 - 19 Fan Changeover & Package Unit Controllers
- 20 21 Fan Controllers
 - 22 Inverter Drives

DID YOU KNOW?

Annicom manufactures the smallest 6kW Three Phase Power Regulator in the world; the AX-MPR3-6.

CONTROLLERS

POWER CONTROLLERS & SOLID STATE RELAYS

AY-SSR1-v

SOLID STATE RELAYS - SINGLE PHASE - DIN RAIL MOUNT



Single Phase Solid State Relays suitable for loads up to 6kW. Various control input options are available both AC and DC. Applications include switching heating coils, duct heaters and similar products.

FEATURES

- Over temperature protection
- LED Output status indication
- DIN rail mounting
- Integrated heatsink for optimum heat dissipation

Order Codes		List Price
AX-SSR1-20-DC	4-38Vdc Input - Single Phase - 4.8kW (20A)	£39.00
AX-SSR1-20-24	24Vac Input - Single Phase - 4.8kW (20A)	£39.00
AX-SSR1-20-230	230Vac Input - Single Phase - 4.8kW (20A)	£59.00
AX-SSR1-25-DC	4-38Vdc Input - Single Phase - 6kW (25A)	£48.00
AX-SSR1-25-24	24Vac Input - Single Phase - 6kW (25A)	£48.00
AX-SSR1-25-230	24Vac Input - Single Phase - 6kW (25A)	£68.00

SPECIFICATION			
Control Input:		24Vac or 4-38Vdc	
Rated Supply:		230Vac 50/60Hz	
Rated Load:	-20	20A (resistive) = 4.8kW	
	-25	25A (resistive) = 6kW	

AX-SSR3-x

SOLID STATE RELAYS - THREE PHASE - DIN RAIL MOUN

Three Phase Solid State Relays suitable for loads up to 12kW. Units are controlled from a voltage control signal.

FFATURES

- Over temperature protection
- LED Output status indication
- Integrated heatsink for optimum heat dissipation

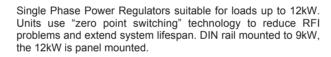


Order Codes	Specify control voltage = -DC = 4-38Vdc -24 = 24Vac -230 = 230Vac	List Price
AX-SSR3-6-DC	4-38Vdc Input - Three Phase - 6kW	£54.00
AX-SSR3-12-DC	4-38Vdc Input - Three Phase - 12kW	£69.00
AX-SSR3-6-24	24Vac Input - Three Phase - 6kW	£54.00
AX-SSR3-12-24	24Vac Input - Three Phase - 12kW	£69.00
AX-SSR3-6-230	230Vac Input - Three Phase - 6kW	£68.00
AX-SSR3-12-230	230Vac Input - Three Phase - 12kW	£83.00

SPECIFICATION						
Load Supply:		380 to 440Vac Three Phase 50/60Hz				
Control Input:	-24	24Vac				
	-DC	4-38Vdc				
	-230	230Va	3			
Rated Load:	Load/p	oh	Fusing/ph	Dissipated Heat		
6kW	8.7A 16.5A		10A	20W		
12kW			20A	40W		

AX-MPR1-x

POWER REGULATORS - SINGLE PHASE



- Over temperature protection
- LED Output status indication
- Alarm output (except 2kW)
- Integrated heatsink for optimum heat dissipation



Order Codes		List Price
AX-MPR1-2	Single Phase 2kW Power Regulator - DIN	£45.00
AX-MPR1-4	Single Phase 4kW Power Regulator- DIN	£70.00
AX-MPR1-6	Single Phase 6kW Power Regulator- DIN	£95.00
AX-MPR1-9	Single Phase 9kW Power Regulator- DIN	£130.00
AX-MPR1-12	Single Phase 12kW Power Regulator - Panel	£225.00

SPECIFICATION			
Power Supply:	24Vac/dc ±10% -2kW 230Vac from load		
Input:	0-10Vdc		
Rated Load:	Load/phase	Fusing/phase	Dissipated Heat
2kW	8.7A	10A	11W
4kW	18A	20A	22W
6kW	25A	30A	34W
9kW	37.5A	40A	63W
12kW	52A	60A	85W

AX-MPR1-xx-RL

POWER REGULATORS - SINGLE PHASE - RAISE / LOWER INPUT



Single Phase Power Regulators which accept a Raise/Lower input suitable for loads up to 9kW. Units use "zero point switching" technology to reduce RFI problems and extend system lifespan.

FEATURES

- Over temperature protection
- LED Output status indication
- Alarm output
- Integrated heatsink for optimum heat dissipation

Order Codes		List Price
AX-MPR1-2-RL	Single Phase 2kW Raise/Lower Power Regulator	£60.00
AX-MPR1-4-RL	Single Phase 4kW Raise/Lower Power Regulator	£110.00
AX-MPR1-9-RL	Single Phase 9kW Raise/Lower Power Regulator	£145.00

01 6011	10 / 110	
24Vac/dc ±10% -2kW from supply		
24Vac Raise/Lower signal		
Load/ph	Fusing/ph	Dissipated Heat
8.7A	10A	11W
18A	20A	22W
37.5A	40A	63W
	24Vac/dc ±' 24Vac Raise Load/ph 8.7A 18A	24Vac Raise/Lower signal Load/ph Fusing/ph 8.7A 10A 18A 20A

SPECIFICATION



POWER CONTROLLERS & SOLID STATE RELAYS

AX-MPR3-x

THREE PHASE POWER REGULATORS - DIN RAIL MOUNT



DIN Rail Mount Three Phase Power Regulators suitable for loads from 6 to 18kW. Units use "zero point switching" technology to reduce RFI problems and extend system lifespan.

FEATURES

- Over temperature protection
- LED Output status indication
- Alarm output
- Integrated heatsink for optimum heat dissipation

Order Codes		List Price
AX-MPR3-6	Three Phase 6kW Power Regulator	£80.00
AX-MPR3-12	Three Phase 12kW Power Regulator	£95.00
AX-MPR3-18	Three Phase 18kW Power Regulator	£125.00

			N
Power Supply:	24Vac/dc ±10%		
Input:	0-10Vdc		
Rated Supply:	415Vac 50/60Hz (600V versions available)		
Rated Load:	Load/ph Fusing/ph Dissipated Heat		
6kW	8.7A	10A	20W
12kW	16.5A	20A	40W
18kW	25A	30A	60W

AX-PPR3-27 / 36 / 54

THREE PHASE POWER REGULATORS - PANEL MOUNT - 27KW TO 54KW



Three Phase Power Regulators in rugged steel enclosures suitable for loads up to 54kW. The 54kW version uses a fan to disperse heat whereas the smaller units have unassisted cooling.

FFATURE

- Over temperature protection
- LED Output status indication
- Alarm output
- Integrated heatsink for optimum heat dissipation

Order
AX-PPF
AX-PPF
AX-PPF

Order Codes		List Price
AX-PPR3-27	Three Phase 27kW Power Regulator	£225.00
AX-PPR3-36	Three Phase 36kW Power Regulator	£295.00
AX-PPR3-54	Three Phase 54kW Power Regulator	£385.00

		ICATION	
Power Supply:	24Vac/dc ±10%		
Input:	0-10Vdc		
Rated Supply:	415Vac 50/60Hz		
Rated Load:	Load/ph	Fusing/ph	Dissipated Heat
27kW	37.5A	40A	85W
36kW	150A	60A	167W
54kW	75A	80A	250W

AX-PPR3-72 / 105

THREE PHASE POWER REGULATORS - PANEL MOUNT - 72KW TO 105KW



Three Phase Power Regulators in a durable steel enclosure, suitable for loads up to 105kW. All heat is dissipated without the need for additional fans or heatsinks. Alarm output option.

•	Over temperature protection
•	LED Output status indication

- Integrated heatsink for optimum heat dissipation
- Order Codes
 List Price

 AX-PPR3-72
 Three Phase 72kW Power Regulator
 £500.00

 AX-PPR3-105
 Three Phase 105kW Power Regulator
 £630.00

	SPECIF	ICATIC	
Power Supply:	24Vac/dc ±10%		
Input:	0-10Vdc		
Rated Supply:	415Vac 50/60Hz		
Rated Load:	Load/ph	Fusing/ph	Dissipated Heat
72kW	100A	Internal	335W
105kW	146A	Internal	487W

AX-PPR3-xxx

THREE PHASE POWER REGULATORS - PANEL MOUNT - 150KW+



Three Phase Power Regulators in a durable enclosure, suitable for loads up to 400kW. All heat is dissipated without the need for additional fans or heatsinks. The units are built and fused according to the actual load requirements.

FEATURES

- Over temperature protection
- LED Output status indication
- Integrated heatsink for optimum heat dissipation
- Integrated fan cooling

Order Codes		List Price
AX-PPR3-150	Three Phase 150kW Power Regulator	£1165.00
AX-PPR3-xxx	Three Phase Power Regulator specify load	£POA

SPECIFICATION		
Power Supply:	24Vac/dc ±10%	
Input:	0-10Vdc	
Rated Supply:	415Vac 50/60Hz	
Fused:	According to load	
Ambient Range	0 to 55°C (note rated at 40°C)	
Rated Load:	See data sheets	

CONTROLLERS

PROPORTIONAL, FREE COOLING & WINDOW CONTROLLERS

AX-PI



The AX-PI is an intelligent temperature controller with Integral Feedback Loop. Two analogue outputs for heating and/or cooling, Low limit input, remote Setpoint option, Setback feature and a host

of adjustable parameters offer incredible flexibility.

Using the two-line LCD, setup is simple, with options to adjust or

display Temperature, Setpoint, Integral feedback settings, Deadband, Proportional band, and Setback. 10K3A1 sensor inputs

allow temperature and low limit to be monitored in a range of environments. The -A version provides single 0-10Vdc input, suitable for use with RH Sensors, CO2 Sensors etc.

The unit can be connected to an external switch, such as a time clock or occupancy sensor, so that the unit can revert to the Setback when the space is unoccupied or a lower Setpoint is required. TS35 suitable DIN rail carrier and high quality rising clamp terminals guarantee ease of installation.

Versions for 0-10Vdc Setpoint input, 0-10Vdc temperature input, 5V Central Output makes the AX-PI range a versatile, elegant temperature control solution.

Order Codes		List Price
AX-PI	DIN rail PI controller 1-11kΩ remote Setpoint	£55.00
AX-PI-5	DIN rail PI controller 5V central	£55.00
AX-PI-A	DIN rail PI controller 0-10V I/P	£60.00
AX-PI-R10V	DIN rail PI controller 0-10V remote Setpoint	£55.00
AX-POT	Remote Setpoint 1-11kΩ	£15.00

SPECIFICATION		
Power Supply:	24Vac/dc ±15%	
Power Consumption:	2VA approx	
Input Signal:	Thermistor or 0-10Vdc	
Output Signal:	2 x 0-10(2-10)Vdc @ 3mA	
Control Range:	-5 to 95°C adjustable	

Heating and/or cooling 0-10V PI output

Two temperature, Setback and remote

-A version is Suitable for RH, AQ, CO2 control

LCD display and setup buttons Adjustable proportional and integral band

Setpoint inputs

AX-CDFC



The AX-CDFC automatically utilises fresh air for cooling when viable. These units are an excellent energy saving device, at a very competitive price point.

The unit controls the free cooling air supply over a Setpoint range of 15°C to 25°C when outside air is below the free cooling temperature.

This is adjustable between 10 to 0°C. The unit provides proportional control above the Setpoint and also provides an interlock signal to prevent compressor operation when free cooling is active.

Order Codes		List Price
AY-CDEC	Damper Controller for Free Cooling	£60.00

- Proportional damper control LCD display and setup buttons
- Adjustable proportional and integral band
- 2 x temperature inputs

	SPECIFICATION
Power Supply:	24Vac ±15%
Power Consumption:	2VA approx
Input Signal:	thermistor temperature 10K3A1
Output Signal:	1 x 0-10(2-10)Vdc @ 3mA
Relay Output:	SPDT rated 6A @ 230Vac resistive load
Control Range:	15 to 25°C adjustable

AX-xC-P1



Proportional Temperature Controllers that provide a 0-10Vdc output proportional to the difference between the Setpoint and the measured temperature. The output signal can be used to control a damper motor, valve actuator, relay module or a thyristor power controller among others.

Order Codes		List Price
AX-RC-P1	Room Proportional Controller 1 x 0-10V o/p	£29.00
AX-DC-P1	Duct Proportional Controller 1 x 0-10V o/p	£42.00
AX-IC-P1	Immersion Proportional Controller 1 x 0-10V o/p	£50.00

- Heating or cooling proportional 0-10V output
- Adjustable proportional band
- Room. Duct and Immersion versions

SPECIFICATION				
Power Supply:	24Vac/dc +10% / -15%			
Output Signal:	0-10Vdc min 1k Ohm			
Setpoint Range:	-10 to 50°C			
Amhient Range:	0 to 50°C			

AX-WAC



The AX-WAC is a three channel window controller providing timed forward/reverse outputs to open and close two wire DC window actuators. Each output can be driven from a separate 0-10V input or can be combined. Any cycle time from five to 240 seconds can be set. A "Close All" input is also provided.

Order Codes		List Price
AX-WAC	Window Actuator Controller	£69.00

- Three independent forward/reverse outputs
- 5 to 240 seconds cycle time ranges
- "Close All" input to close all windows
- 0-5, 2-10 or 0-10V input range selection

Operating Voltage:	24Vac/dc (±15%)
Inputs:	3 x Control inputs 0-5, 2-10 or 0-10Vdc
	VFC "Close all" contact
Output:	3 x Output Relay Pairs - Open/Close
Relay Rating:	5A @ 24Vdc

FAN COIL & VAV CONTROLLERS

AX-E07x



AX-E07xx Thermostats and Controllers are stand-alone, microprocessor based thermostats with a large LCD display. The units are designed to control the fans, valves, compressors or electric heaters in fan-coil unit and air-conditioner applications. The models are available for cooling and/or heating control of two and four-pipe fan-coil units. The models are backlit.

- Heating and/or Cooling versions
- Raise/Lower and analogue versions
- 3 speed fan switch
- Backlight

Order Codes	Specify Voltage	List Price
AX-E07A	Heating On/Off Fan Coil Controller	£26.00
AX-E07B	Cooling On/Off Fan Coil Controller	£26.00
AX-E07C	Heating & Cooling On/Off Fan Coil Controller	£27.00
AX-E07F	Heating or Cooling Raise/Lower Controller	£27.00
AX-E07P	Heating or Cooling Modulating Controller	£27.00

SPECIFICATION				
Operating Voltage:	230Vac 50/60Hz (±10%)			
Temperature Setting:	0 to 55°C			
Setpoint Range:	10 to 30°C			
Output: Raise/Lower:	2 x 1A @ 230Vac			
Output: Analogue:	0-10Vdc			
Fan Speed:	1A @ 240Vac			

AX-TBS-x



Note: These units are fully configurable in-house. As such we can offer any combination of features required.

Contact the Sales Office for a quotation.

The AX-TBS Room Digital FCU Controllers measure the temperature in the room and send a modulating 0-10Vdc Signal to the Fan Coil Unit actuator based on the difference between the Setpoint and the actual temperature. The unit comes complete with a 3-speed fan selector.

The unit has two energy saving inputs. The first is a window contact to switch off the air conditioning if the window is left open. The second is a digital input from a keycard or occupancy sensor to allow the unit to enter unoccupied mode.

Modbus, BACnet and Backlit LCD versions are all available.

The Annicom AX-TBS range of Fan Coil Controllers is fully configurable in-house with a virtually limitless combination of options. Please Contact the Sales Office for more information.

- LCD Display of Temperature / Setpoint Options for Heating, Cooling
- Options for Modbus & BACnet
- Large LCD Screen with Backlight option
- Two Energy Saving Inputs
 Three Speed Fan Selection

SPECIFICATION				
Power Supply:	24Vac/dc ±10%			
Power Consumption:	Typical 40mA			
Control:	Proportional plus integral algorithm			
Ambient Range:	0-50°C			
Housing:	White ABS			
Display Size:	41mm x 63mm			
Display Resolution:	0.1°C			
Cooling Output:	0-10Vdc max 3mA			
Setpoint Adjust:	Up/Down Push Buttons			
Setpoint Control:	Maxmimum 0-50°C (range adjustable)			
Fan Speed Select:	Auto - Off - Low - Med - High			
Fan Speed Output:	3 x Relays 2A@250Vac inductive			
Energy Saving Contact:	NO or NC contact - unoccupied mode			
Window Digital Input:	NO or NC contact - disable A/C if window open			
Dimensions:	94mm (w) x 118mm (h) x 34mm (d)			
Weight:	120 grams			
Terminals / Cable:	0.5mm to 2.5mm²			

OUTPUTS		3 Speed	Additional	Occupancy /	Window	Modbus	BACnet			
Order Codes	Cooling	Heating	Fan	Relays	Keycard Input	Digital Input	RTU	MS/TP	Backlight	List Price
AX-TBS-V03000000	0-10Vdc	-	YES	-	-	_	-	-	-	£49.50
AX-TBS-V03011000	0-10Vdc	-	YES	_	YES	YES	-	-	_	£50.50
AX-TBS-V03C00000	0-10Vdc	-	YES	1 Cooling	_	-	-	-	_	£51.50
AX-TBS-V13011000	0-10Vdc	1x SPDT / 1x SPST	YES	-	-	-	-	-	-	£54.00
AX-TBS-V23011000	0-10Vdc	1x SPDT / 2x SPST	YES	-	_	_	-	_	-	£56.00
AX-TBS-VV3000000	0-10Vdc	0-10Vdc	YES	-	-	_	-	-	-	£53.00
AX-TBS-103000000	SPDT	-	YES	-	-	-	-	-	-	£39.50
AX-TBS-R03000000	Raise / Lower	-	YES	-	_	_	-	_	-	£49.00
AX-TBM-V03000100	0-10Vdc	-	YES	-	-	_	YES	-	-	£53.00
AX-TBB-V03000010	0-10Vdc	-	YES	_	-	-	-	YES	-	£69.50

CONTROLLERS

PACKAGE UNIT & FAN CONTROLLERS

AX-CN-FXO

An intelligent fan control unit that provides automatic changeover for two fans based on either a time or failure. The AX-CN-FXO includes a two line display to show current state and to provide easy commissioning through visual indication.

Failure changeover can be triggered by high or low fan supply current, loss of airflow or loss of air pressure. Failure changeover can also be disabled.

A local on input is also provided with run on, either timed or based on air quality via a 0-10Vdc Input. The unit also includes air filter monitoring and configurable alarm relays.

Application environments include kitchens, toilets, bathrooms, wetrooms and all extraction or air handling environments.



Order Codes		List Price
AX-CN-FXO	Automatic Fan Changeover Controller	£135.00

- Contact for Air Flow / Air Pressure
- Over / Under Current Detection
- Timed / CO2 (Air Quality) Run On
- Air Filter Monitoring
- Configurable Timed Fan Changeover: 1-24 Hours
- Auto/Manual Switch for Commissioning
- Internally Fused

SPECIFICATION				
Power Supply:		230Vac 50/60Hz ±15%		
Inputs:	Air Flow Switch	VFC		
	Air Pressure	0-10Vdc		
	Air Diff. Pressure Switch	VFC		
	Air Quality Sensor	0-10Vdc		
	Remote On	VFC		
	Local On	VFC		
Outputs:	Fan 1 / Fan 2 Supply Relay	NO Contacts 12A(Res)< 250Vac Fused at 13Amps		
	Status Relays x 5	NO Contacts with combined Common Terminal. 250Vac 5A(Res) each, combined max 10A.		

AX-CN-PUC

The AX-CN-PUC is a compact and cost effective solution for control of package units; Fan Coil and Air Handling Units in a single package.

Control up to 4 compressors, a Variable Frequency (Inverter) Drive for pressure control, a power regulator for temperature control, and a humidifier, all from a single unit.

Three analogue inputs monitor Pressure, Relative Humidity and Temperature. The unit will also monitor up to six cooling coils, automatically turning off compressors on detection of frost. Two alarm outputs are included, one for no airflow and one as a general alarm.

Annicom offers an in-house programming service for special applications, operation can be modified to suit your requirements.



Order Codes		List Price
AX-CN-PUC	Package Unit Controller	£195.00

- 2 Analogue Outputs for a VFD & Power Regulator
- 4 Compressor Relay Outputs
- 1 Humidifier and 2 Alarm Relay Outputs
- 3 Analogue Inputs (Pressure, RH & T)
- Adjustable Proportional Bands
 Pre-Start on Compressor Outputs
- Din Rail Mounted Enclosure
- LCD for easy commissioning and monitoring

SPECIFICATION					
Power Supply:		24Vac 50/60Hz ±15% or 24Vdc ±15% (200mA max)			
Inputs:	Duct Pressure	0-10Vdc scaled for 0-500Pa			
	Relative Humidity	0-10Vdc scaled for 0-100% RH			
	Temperature	0-10Vdc scaled for 0-70°C			
	Airflow	Volt Free Contact (AX-ADPS)			
	Frost Sensors	Up to 6x AX-TE-FT-W (IP68 Flying Lead Sensor)			
Outputs:	Compressor 1-4	4x Normally Open Contacts 10A (Resistive), 250Vac			
	Humidifier	1x Normally Open Contacts 10A (Resistive), 250Vac			
	Common	Common for compressor & humidifier Output 10A max			
	VFD (Inverter Driver)	0-10Vdc proportional and integral pressure control, 5mA			



FAN / MOTOR SPEED CONTROLLERS

AX-FC-x

SINGLE PHASE MOTOR REGULATORS - PANEL MOUNT

Miniature Triac Motor Regulator for step-less speed regulation of controllable single phase AC motors. Loads can be controlled in both two or three wire connection mode (capacitor).



- Integral fuse
- Panel mount
- Remote analogue control



Order Codes		List Price
AX-FC-4	4A Single Phase AC Motor Regulator - DIN rail	£60.00
AX-FC-6	6A Single Phase AC Motor Regulator - DIN rail	£61.00
AX-FC-8	8A Single Phase AC Motor Regulator - DIN rail	£62.00

SPECIFICATION					
Power Supply:		180 to 250Vac 50Hz			
Control Signal:		0-10Vdc, 2-10Vdc with autostop, 10 to 0Vdc (specify on order)			
Maximum Power: FC	-4	0.9kW			
FC	-6	1.2kW			
FC	-8	1.5kW			
Maximum Current: FC	-4	4A			
FC	-6	6A			
FC	-8	8A			
Ambient Range:		-10 to +40°C			

AX-FC-EVS

FLECTRONIC SPEED CONTROLLERS



The AX-FC-EVS series of Electronic Speed Controllers provides an economic means of regulation for voltage controllable single phase AC motors. The AX-FC-EVS series has suitably rated integral fuses. The units offer remote control via 0-10Vdc or 4-20mA signal and are suitable for direct connection to BMS Controllers.

FEATURES

- Integral fuse
- Wall mount
- Remote analogue control

Order Codes		List Price
AX-FC-EVS1	Electronic Speed Controller 1.5A	£83.00
AX-FC-EVS3	Electronic Speed Controller 3.0A	£86.00
AX-FC-EVS6	Electronic Speed Controller 6.0A	£89.00
AX-FC-EVS10	Electronic Speed Controller 10.0A	£110.00

SPECIFICATION					
Inputs: 230Vac 1 phase 50/60Hz					
Control Type:	0-10Vdc or 4-20mA				
On/Off Switch:	Mounted on side				
Minimum Speed:	Adjustable via trim pot				
Ambient Temp:	0 to 50°C (N.B. unit is rated at 30°C)				
Protection:	IP54				
Rating:	Current	Fusing			
EVS1	0.1 to 1.5A	FF 3A			
EVS3	0.3 to 3A	FF 5A			
EVS6	0.5 to 6A	FF 8A			
EVS10	1.0 to 10A	FF 14A			

AX-FC-STR

MANUAL SPEED CONTROLLERS (TRANSFORMER) - SINGLE / THREE PHASE



The AX-FC-STR Transformer Speed Controllers vary the speed of motors according to a Off to five step manual selector knob on the front which increases or decreases the voltage to the motor.

					U	

- Integral fuse
- Wall mount
- 6 position knob control (0-5)
- Single or three phase version available

Order Codes		List Price
AX-FC-STR-1-08	Transformer Speed Controller single phase 0.8A	£56.00
AX-FC-STR-1-15	Transformer Speed Controller single phase 1.5A	£63.00
AX-FC-STR-1-22	Transformer Speed Controller single phase 2.2A	£75.00
AX-FC-STR-1-35	Transformer Speed Controller single phase 3.5A	£90.00
AX-FC-STR-1-50	Transformer Speed Controller single phase 5.0A	£94.00
AX-FC-STR-1-75	Transformer Speed Controller single phase 7.5A	£119.00
AX-FC-STR-1-100	Transformer Speed Controller single phase 10A	£181.00
AX-FC-STR-1-130	Transformer Speed Controller single phase 13A	£195.00
AX-FC-STR-1-160	Transformer Speed Controller single phase 16A	£380.00
AX-FC-STR-1-200	Transformer Speed Controller single phase 20A	£430.00
AX-FC-STR-3-15	Transformer Speed Controller three phase 1.5A	£203.00
AX-FC-STR-3-25	Transformer Speed Controller three phase 2.5A	£213.00
AX-FC-STR-3-40	Transformer Speed Controller three phase 4.0A	£259.00
AX-FC-STR-3-60	Transformer Speed Controller three phase 6.0A	£326.00
AX-FC-STR-3-80	Transformer Speed Controller three phase 8.0A	£360.00
AX-FC-STR-3-110	Transformer Speed Controller three phase 11A	£432.00
AX-FC-STR-3-140	Transformer Speed Controller three phase 14A	P.O.A
AX-FC-STR-3-180	Transformer Speed Controller three phase 18A	P.O.A

SPECIFICATION					
Inputs:	230Vac/400Vac 50/60Hz 1 or 3 phase				
Control Type:	Manual via a 6 position knob				
Nominal Current:	0.8 to 20A				
Minimum Speed:	Adjustable via trim pot				
Ambient Range:	0 to 50°C (N.B. rated at 30°C)				
Protection:	IP54				

CONTROLLERS

FAN CONTROLLERS

AX-FC-STI

MANUAL FAN SPEED CONTROLLER - SINGLE PHASE

Designed for easy and trouble-free installation, the AX-FC-STL series of surface mounted manual fan speed controllers is suitable for use in humid environments. Several motors can be connected to one unit so long as the overall current limit is not exceeded. The AX-FC-STL series has suitably rated integral fuses

FEATURES

- Integral fuse
- Surface mount
- Potentiometer control



Order Codes		List Price
AX-FC-STL015	Manual Fan Speed Controller 1.5A	£43.00
AX-FC-STL030	Manual Fan Speed Controller 3.0A	£45.00
AX-FC-STL050	Manual Fan Speed Controller 5.0A	£58.00
AX-FC-STL060	Manual Fan Speed Controller 6.0A	£63.00
AX-FC-STL100	Manual Fan Speed Controller 10.0A	£83.00

SPECIFICATION					
Inputs:	230Vac 1 phase 50/60Hz				
Control Type:	Manual via a potentiometer				
On/Off Switch:	Mounted on side of unit				
Minimum Speed:	Adjustable via trim pot				
Ambient Range:	0 to 50°C (N.B rated at 30°C				
Protection:	IP54				

AX-FC-MTY

SINGLE GANG FAN SPEED CONTROLLER - 0.5A to 4A



Designed for easy and trouble-free installation, the AX-FC-MTY series of Manual Fan Speed Controllers is suitable for use in humid environments. The units can be connected to several units at once (as long as the overall current limit is not exceeded).

The AX-FC-MTY series has suitably rated integral fuses.

ы		11	D	
	\sim	U.		O

- Integral fuse
- Wall and flush mount
- Potentiometer control

Order Codes	NOTE: If reverse action required change MTY to MTX	List Price
AX-FC-MTY005	Manual Fan Speed Controller 0.5A	£32.00
AX-FC-MTY010	Manual Fan Speed Controller 1.0A	£33.00
AX-FC-MTY020	Manual Fan Speed Controller 2.0A	£39.00
AX-FC-MTY025	Manual Fan Speed Controller 2.5A	£49.00
AX-FC-MTY040	Manual Fan Speed Controller 4.0A	£62.00

SPECIFICATION		
Inputs:	230Vac 1 phase 50/60Hz	
Control Type:	Manual via a potentiometer	
On/Off Switch:	Inbuilt with potentiometer	
Minimum Speed:	Adjustable via trim pot	
Protection:	IP44 (4A versions IP54)	

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99

Top of the range Inverter Drives with an extensive list of standard features, including time clocks, plain diagnostics, BACnet and remote access systems. 18 languages make the AX-INV- range an obvious choice for hassle-free, reliable installations, with an IP21 enclosure.



Order Codes		List Price
AX-INV-02A4-4	Inverter 0.75kW IP21	£483.00
AX-INV-03A3-4	Inverter 1.10kW IP21	£520.00
AX-INV-04A1-4	Inverter 1.50kW IP21	£592.25
AX-INV-05A4-4	Inverter 2.20kW IP21	£628.00
AX-INV-06A9-4	Inverter 3.00kW IP21	£689.00
AX-INV-08A8-4	Inverter 4.00kW IP21	£773.00
AX-INV-012A-4	Inverter 5.50kW IP21	£906.25
AX-INV-015A-4	Inverter 7.50kW IP21	£1062.50
AX-INV-023A-4	Inverter 11.0kW IP21	£1316.75
AX-INV-031A-4	Inverter 15.0kW IP21	£1690.50
AX-INV-038A-4	Inverter 18.5kW IP21	£1920.50
AX-INV-045A-4	Inverter 22.0kW IP21	£2197.75
AX-INV-059A-4	Inverter 30.0kW IP21	£2620.75
AX-INV-072A-4	Inverter 37.0kW IP21	£2970.50
AX-INV-087A-4	Inverter 45.0kW IP21	£3755.75
AX-INV-125A-4	Inverter 55.0kW IP21	£5071.50
AX-INV-157A-4	Inverter 75.0kW IP21	£6303.25

- EMC filters for building sector class C2 (1st environment)
- Meets mandatory harmonic current standard EN 61000-3-12
- Coated electronic boards improve reliability & life-cycle
- Override Function for emergency situations
- Real-time clock and calendar
- BACnet MS/TP, N2, FLN and Modbus RTU embedded
- Multilingual control panel with HELP-button
- 14 HVAC pre-programmed applications
- Miniature circuit breakers can be used instead of fuses
- Swinging choke up to 25% less harmonics
- Main switch as option for local safety
- Interactive maintenance assistant drive alerts you when maintenance is required
- Diagnostic Assistant plan language faults and potential solutions
- Fault logger with time clock
- Calculates energy savings and payback times
- Remote access and diagnostics
 - Noise smoothing
- Uploading and downloading of parameters from one drive to another
- Easily detachable by hand (both IP21 and IP54)
- 18 languages available in one single panel, including Russian, Turkish, Czech, Polish and Chinese

Please see Datasheets for model specific Information

Top of the range Inverter Drives with an extensive list of standard features, including time clocks, plain diagnostics, BACnet and remote access systems. 18 languages make the AX-INV- range an obvious choice for hassle-free, reliable installations, with an IP54 enclosure



Order Codes		List Price
AX-INV-012A-4	ACH550 .75kW IP54 + Switch	£759.00
AX-INV-3A34B-05	Inverter 1.10kW IP54	£592.25
AX-INV-4A14B-05	Inverter 1.50kW IP54	£676.25
AX-INV-5A44B-05	Inverter 2.20kW IP54	£761.50
AX-INV-6A94B-05	Inverter 3.00kW IP54	£821.25
AX-INV-8A84B-05	Inverter 4.00kW IP54	£954.50
AX-INV-12A4B-05	Inverter 5.50kW IP54	£1027.00
AX-INV-15A4B-05	Inverter 7.50kW IP54	£1123.50
AX-INV-23A4B-05	Inverter 11.0kW IP54	£1485.75
AX-INV-31A4B-05	Inverter 15.0kW IP54	£1883.75
AX-INV-38A4B-05	Inverter 18.5kW IP54	£2113.75
AX-INV-45A4B-05	Inverter 22.0kW IP54	£2511.60
AX-INV-59A4B-05	Inverter 30.0kW IP54	£3007.25
AX-INV-72A4B-05	Inverter 37.0kW IP54	£3369.50
AX-INV-87A4B-05	Inverter 45.0kW IP54	£4129.75

- EMC filters for building sector class C2 (1st environment)
- Meets mandatory harmonic current standard EN 61000-3-12
- Coated electronic boards improve reliability & life-cycle
- Override Function for emergency situations
- Real-time clock and calendar BACnet MS/TP, N2, FLN and Modbus RTU embedded
- Multilingual control panel with HELP-button
- 14 HVAC pre-programmed applications
- Miniature circuit breakers can be used instead of fuses
- Swinging choke up to 25% less harmonics
- Main switch as option for local safety
- Interactive maintenance assistant drive alerts you when maintenance is required Diagnostic Assistant – plan language faults
- and potential solutions
- Fault logger with time clock
- Calculates energy savings and payback times
- Remote access and diagnostics
- Noise smoothing
- Uploading and downloading of parameters from one drive to another
- Easily detachable by hand (both IP21 and IP54)
- 18 languages available in one single panel, including Russian, Turkish, Czech, Polish and Chinese

Please see Datasheets for model specific Information

THERMOSTATS

Electronic and Intelligent Room Thermostats, for energy saving at a competitive price point. Annicom's range of AX-ET and AX-CN-ST Electronic Thermostats offer advanced control of up to six staged outputs, with LCD setup and even Duty Rotation.

Annicom also distributes a range of well respected European manufactured Plant Thermostats, found in this section.

- 24 Electronic Thermostats DIN Rail
- 25 26 Intelligent & Standard Room Thermostats
 - 27 Frost & Plant Thermostats
 - **28** Capillary Thermostats
 - 29 Immersion Thermostats



DID YOU KNOW?

Annicom's range of Intelligent Room Thermostats features include built-in occupancy and window contacts on certain versions for greater energy savings.

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 2!



ELECTRONIC THERMOSTATS - DIN RAIL

AX-ET1-24-R



An excellent, low-cost solution for single stage heating or cooling, with a very small footprint.

The AX-ET1-24-R simple Eectronic Thermostat that monitors the temperature of air/liquid and gives a switched heating or cooling output in response to temperature change. The Setpoint is adjustable via a on board potentiometer.

Order Codes		List Price
AX-ET-1-24R	Basic single stage Electronic Thermostat	£19.00

- DIN rail mount as standard
- For use with 10K3A1 sensors

SPECIFICATION		
Input Supply: 24Vac ±15%		
Output:	SPDT relay	
Temperature Range: -5 to +95°C (4 link selectable ranges -5/35, 10/50, 35/75, 55/95		
Contact Rating:	10A @ 250Vac res. (3A ind.)	

AX-ET-1-x



A compact range of Thermostats that monitor the temperature of air/liquid and give a heating/cooling output in response to temperature change. The Setpoint is adjustable on the built in LCD via push buttons on the PCB or from a remote location with an AX-POT or similar potentiometer. Includes digital display of

Order Codes		List Price
AX-ET-1L-230	Compact single stage 230Vac Thermostat	£41.00
AX-ET-1L-24	Compact single stage 24Vac Thermostat	£35.00
AX-POT	Remote Setpoint	£15.00
AX-ET-1-ENC	IP65 Enclosure	Add £13.00

- LCD digital display of Setpoint
- 4 selectable temperature ranges For use with 10K3A1 sensors
- DIN rail mount as standard (enclosure mounting option)
- Night Setback adjustment input included (requires a time switch)

SPECIFICATION			
Input Supply: 24 or 230Vac ±15% 50/60Hz			
Output:	SPDT relay		
-5 to +95°C -5/35, 10/50, 35/75, 55/95.			
Contact Rating:	10A @ 250Vac res. (3A ind.)		

AX-ET-x



A range of Multi Stage Electronic Thermostats that monitor the temperature of air/liquid and give multiple heating/cooling outputs in response to temperature change. All the parameters are setup via three buttons or from a remote location. Includes digital display of set point and setup parameters.

Order Codes		List Price
AX-ET-2-24	Two-stage 24Vac Thermostat	£49.00
AX-ET-2-230	Two-stage 230Vac Thermostat	£58.00
AX-ET-4-24	Four-stage 24Vac Thermostat	£75.00
AX-ET-4-230	Four-stage 230Vac Thermostat	£86.00
AX-ET-6-24	Six-stage 24Vac Thermostat	£86.00
AX-ET-6-230	Six-stage 230Vac Thermostat	£95.00
AX-ET-POT	Remote Setpoint	£15.00
AX-ET-ENC	IP65 Enclosure	Add £13.00

- LCD digital display of Setpoint
- 2, 4 or 6 stage versions
- Easy set-up with up/down and menu buttons
- Setpoint on unit
- Remote Setpoint and Setback I/PS
- For use with 10K3A1 sensors

SPECIFICATION	
Input Supply:	24Vac or 230Vac 50/60Hz
Inputs:	Temperature, Remote Setpoint, Setback
Output:	2, 4 or 6 SPST relays
Contact Rating:	10A @ 250Vac res. (3A ind.)
Temperature Rating: -10 to +120°C	

AX-CN-STx



The new AX-CN-ST range of multi-stage switched controllers offers the rich feature set of the AX-ET range with the advantage of an IP20 enclosure, and Duty Rotation.

The AX-CN-ST can improve plant longevity through equal loading across all connected devices, and offers increased versatility in mounting due to the new enclosure.

Order Codes		List Price
AX-CN-ST4-24	Four-stage 24Vac Enclosed Controller	£82.00
AX-CN-ST4-230	Four-stage 230Vac Enclosed Controller	£93.00
AX-CN-ST6-24	Six-stage 24Vac Enclosed Controller	£93.00
AX-CN-ST6-230	Six-stage 230Vac Enclosed Controller	£102.00

- LCD digital display of Setpoint
- 4 or 6 stage versions
- Easy set-up with up/down and menu buttons
- Remote Setpoint and Setback I/PS Options
- For use with 10K3A1 sensors
- **Duty Rotation Available**
- New enclosure design

SPECIFICATION		
Input Supply:	24Vac or 230Vac 50/60Hz	
Inputs:	10K3A1, Remote Setpoint, Setback	
Output:	4/6 SPST relays - Optional Duty Rotation	
Contact Rating:	10A @ 250Vac res. (3A ind.)	
Temperature Rating: -10 to +120°C		

ROOM THERMOSTATS

AX-AUTOSTAT II

INTELLIGENT PIR ROOM TEMPERATURE CONTROLLER - DOUBLE GANG



A range of Intelligent Thermostats capable of switching loads up to 3kW. The units have an integrated motion detector which reduces the heating Setpoint to a Setback level when the space is unoccupied. There is an option of concealed or exposed Setpoint.

FEATURES

- Visible or concealed Setpoint on the same unit
- Energy-saving functions
- Simple installation

SPECIFICATION		
Operating Voltage:	220/240Vac 50Hz	
Occupied Temperature Settings:	10 to 30°C	
Setback Range:	0 to 10°C from Setpoint	
Maximum Load:	3kW	
Timer Ranges:	15, 30 or 60 minutes	

Order Codes		List Price
AX-Autostat II	Double gang room Intelligent Thermostat	£97.00

AX-AUTOSTAT III / IV

INTELLIGENT PIR ROOM TEMPERATURE CONTROLLERS - SINGLE GANG



A range of Single Gang Intelligent Thermostats capable of switching loads up to 3kW. The units have an integrated motion detector which reduces the heating Setpoint to a Setback level when the space is unoccupied.

The Autosat III incorportates a window contact to turn off heating if a window is opened, whilst the Autostat IV features a concealed Setpoint for an elegant, unobtrusive solution.

FEATURES

- Visible/Concealed Setpoint versions
- Energy-saving functions
- Simple installation

Order Codes		List Price
AX-Autostat III	Exposed Setpoint and window contacts	£75.00
AX-Autostat IV	Concealed Setpoint	£75.00

SPECIFICATION		
Operating Voltage:	220/240Vac 50Hz	
Occupied Temperature Settings:	10 to 30°C	
Setback Range:	0 to 10°C from Setpoint	
Maximum Load:	3kW	
Timer Ranges:	15, 30 or 60 minutes	

AX-WIRT

WIRELESS INTELLIGENT ROOM TEMPERATURE CONTROLLER



A two-part wireless Electronic Thermostat capable of switching loads up to 3kW. The transmitter has an integrated motion detector which reduces the heating Setpoint to a Setback level when the space is unoccupied.

FEATURES

- Facilitates retro-fitting without disturbing decor
- Operates from standard AAA batteries
- Simple installation

Order Codes		List Price
AX-WIRT-7100	Wireless Room Thermostat and receiver	£98.00
AX-WIRT-000T	Wireless Room Thermostat only	£52.00
AX-WIRT-000R	Wireless receiver only	£52.00

SPECIFICATION				
Operating Voltage: 3 x AAA batteries				
Occupied Temperature Settings: 15 to 25°C				
Setback Range: 5 to 20°C				
Transmission Frequency:	433MHz			

AX-DFCT-THx

ELECTRONIC ROOM THERMOSTATS



The AX-DFCT-TH Electronic Thermostats are a range of wall mounted units for heating or cooling applications. These units can be either mains or battery operated. There is also a programmable version available.

FEATURES

- Low profile housing
- Battery or Mains versions

248

Order Codes		List Price
AX-DFCT-TH7281B	Electronic Room Thermostat c/w batteries	£19.00
AX-DFCT-TH7281H	Electronic Room Thermostat mains powered	£21.00
AX-DFCT-TH9520B	Programmable electronic Room Thermostat	£22.00
AX-DFCT-TH9520H	Programmable electronic Room Thermostat	£24.00

SPECIFICATION		
Measurement Range:		0 to 45°C
Setpoint Range:		5 to 35°C
Operating Voltage:	Н	230Vac @ 50/60Hz
Operating Voltage:	В	2 x 1.5V AAA battery
Switch Rating:		SPDT 7A @ 240Vac (res) (3A ind)
Differential:		0.5°C (approx)
Ambient Range:		0 to 50°C

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99



ROOM THERMOSTATS

AX-E022-x

ROOM THERMOSTATS - LCD DISPLAY



Wall mounted units for heating and/or cooling applications. These units have a display of room temperature and Heat-Off-Cool and three speed fan switch.

FEATURES

- LCD display
- 3 Speed fan switch
- Heating and/or Cooling versions

SPECIFICATION		
Measurement Range:	0 to 40°C	
Setpoint Range:	10 to 30°C	
LCD	4 Digit	
Operating Voltage:	230Vac 50/60Hz	
Switch Rating: Htg/Clg	1A @ 250 Vac	
Fan	6(2)A @ 250Vac	
Dimensions:	92 x 92 x 31mm	
Ambient Range:	0 to 50°C	

Order Codes List Price AX-E022-A Heating/Cooling Thermostat + 3 speed fan £22.00 AX-E022-B Heating/Cooling Thermostat + on/of switch £22.00 AX-E022-C Heating & Cooling Thermostat + 3 speed fan £23.00

AX-TRL

ROOM THERMOSTAT - BAISE / LOWER



The AX-TRL Raise/Lower Thermostat is designed for individual room temperature control applications. The unit has an adjustable internal Setpoint with a front plate offset adjustment. The room temperature, measured using the built in sensor, is processed using a PI control loop to control the room temperature. The outputs drive Raise/Lower (2-point) valve actuators.

Order Codes		List Price
AX-TRL	Raise/Lower Thermostat 230Vac	£44.00

FEATURES

- Raise/Lower Outputs
- Proportional & Integral Control
- Single Gang Flush Mounted Plate

SPECIFICATION		
Setpoint Range:	18 to 24°C (other options)	
Output Type:	RaiseLower 230Vac	
Operating Voltage:	230Vac 50/60Hz	
Proportional Band:	4°C	
Dimensions:	85 x 85 x 57mm	
Ambient Range:	0 to 50°C	

AX-2102

ROOM THERMOSTAT - MECHANICAL, SIMPLE



A Mechanical Room Thermostat suitable for switching low voltage and 240V. No neutral connection is required for this unit, making it suitable for use with 24V control circuits.

- Bellows operated thermostat
- Switches loads up to 3A

Bimetallic thermostat

applications

Switching loads up to 3A Single unit for heating and cooling

Single unit for heating and cooling applications

Order Codes		List Price
AX-2102	Room Thermostat +10°C to +30°C	£11.00

SPECIFICATION				
Operating Voltage:	Up to 220/240Vac 50/60Hz			
Temperature Range:	10 to 30°C			
Switching Load:	3A @ 240Vac (res) (1A ind)			
Switching Differential:	1.0K (approx)			

AX-2101

ROOM THERMOSTAT - MECHANICAL, MULTIPLE OPTIONS

Bimetallic Room Thermostats are suitable for switching up to 240V. The range includes a concealed Setpoint version.



Order Codes		List Price
AX-2101-35	Range +5°C to 35°C	£11.00
AX-2101-15	Range +5°C to +15°C (frost protection)	£11.75
AX-2101-35C	Range +5°C to 35°C (concealed Setpoint)	£10.00

SPECIFICATION				
Operating Voltage:	Up to 220/240Vac 50/60Hz			
Switching Type:	SPDT volt free contacts			
Switching Load:	3A @ 240Vac (res) (1A ind)			
Switching Differential:	0.5K (approx)			

THERMOSTATS

FROST & PLANT THERMOSTATS

AX-TS-FS

FROST PROTECTION THERMOSTATS - MANUAL & AUTO RESET

Thermostats for frost protection in the fresh air intake of air conditioning systems. These units provide a switched output based on the average temperature detected along a six metre capillary sensor. The unit is fixed across a duct, using capillary clips, downstream of the pre-heater or frost coil and is used to prevent the icing up of filters, fans and coils.

FEATURES

- Manual and auto reset versions
- 6 metre capillary
- Easy adjustment of Setpoint
- 16A @ 250Vac resistive



Order Codes		List Price
AX-TS-FS-A	Frost Protection Thermostat - auto reset	£28.50
AX-TS-FS-M	Frost Protection Thermostat - manual reset	£29.50
AX-TS-FS-FC	Capillary fixing clips (pack of 6)	£5.00

SPECIFICATION				
Control Range:	-18 to +13°C			
Operating Voltage:	240Vac @ 50/60Hz			
Switch Rating:	16A @ 250Vac (res) (8A ind)			
Switching Differential:	1.7°C (approx)			
Capillary:	6m x 2mm diameter copper			
Protection:	IP44 as standard			

AX-TW-9501/2

WALL MOUNTED THERMOSTATS - CONCEALED & EXPOSED SETPOINTS

Wall Mounted Thermostats for use in greenhouses, breeding sheds or other polluted areas. These units provide a switched output based on the average temperature detected along a stainless steel spiral.



- Concealed and exposed Setpoint versions
- Stainless steel spiral
- 16A @ 250Vac switch rating



Order Codes		List Price
AX-TW-9501-35	Wall Thermostat exposed Setpoint -35 to +35°C	£42.00
AX-TW-9501-60	Wall Thermostat exposed Setpoint +5 to +60°C	£42.00
AX-TW-9502-35	Wall Thermostat concealed Setpoint -35 to +35°C	£42.00
AX-TW-9502-60	Wall Thermostat concealed Setpoint +5 to +60°C	£42.00

	0, 20,	FICATION
Sensitive Eleme	nt:	Stainless Steel Spiral
Switching Differe	ential:	1 to 2K
Ambient Range:		0 to 70°C
Protection:		IP55
Control Range: 9501/2-35		-35 to +35°C
	9501/2-60	+5 to 60°C
Switch Rating:	C1	16A(3) @ 250Vac
	C2	6A(1) @ 250Vac
Setpoint:	9501	External Setpoint
	9502	Internal Setpoint

AX-TS-5310

PIPE STRAP-ON THERMOSTATS - PIPE / CYLINDER MOUNTING



The AX-TS-5310 Thermostat is a pipe strap-on thermostat for use on water pipes or hot water cylinders. These units provide a switched output based on the average temperature detected along a stainless steel strap or spring wire.

FEATURES

- 10A @ 250V switch rating
- Includes strap or wire

Order Codes		List Price
AX-TS-5310	Thermostat with stainless steel strap for pipes	£14.00
AX-TS-5320	Thermostat with spring wire for water cylinders	£14.00

SPECIFICATION					
Sensitive Element: Stainless Steel Strap or Spring Wire					
Control Range:		17 to 90°C			
Switch Type:		SDPT Volt Free Contacts			
Switching Differential:		5 to 10K			
Ambient Temperature:		0 to 90°C			
Protection:		IP40			
Switch Rating:	C1	10A(3) @ 250Vac			
	C2	3A(1) @ 250Vac			

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99



CAPILLARY THERMOSTATS

AX-TW-9503/4

The AX-TW-9503/4 Wall Mounted Capillary Thermostats for industrial use in polluted areas. These units provide a switched output based on the average temperature detected along a copper capillary. There are both exposed and concealed Setpoint versions and two temperature ranges.

- Concealed and exposed Setpoint versions
- Copper capillary
- 16A @ 250Vac switch rating



Order Codes		List Price
AX-TW-9503-35	Wall Capillary Thermostat exp sp -35 to +35°C	£44.00
AX-TW-9503-60	Wall Capillary Thermostat exp sp +5 to +60°C	£44.00
AX-TW-9504-35	Wall Capillary Thermostat conc sp -35 to +35°C	£44.00
AX-TW-9504-60	Wall Capillary Thermostat conc sp +5 to +60°C	£44.00

SPECIFICATION				
Switching Differential: 1 to 2K				
Ambient Range:		0 to 70°C		
Protection:		IP55		
Control Range:	9503/4-35	-35 to +35°C		
	9503/4-60	+5 to 60°C		
Switch Rating:	C1	16A(3) @ 250Vac		
	C2	6A(1) @ 250Vac		

Capillary Thermostats for heating, cooling and air conditioning systems in polluted areas (dusty and damp). These units provide a switched output based on the average temperature detected along a 1.5 metre capillary sensor.

- Concealed and exposed Setpoint versions
- Stainless steel spiral 16A @ 250Vac switch rating



Order Codes		List Price
AX-TC-9520-35	Capillary Thermostat -35 to +35°C 1.5m Capillary	£17.00
AX-TC-9520-60	Capillary Thermostat 0 to 60°C 1.5m Capillary	£17.00
AX-TC-9520-90	Capillary Thermostat 0 to 90°C 1.5m Capillary	£17.00
AX-TC-VT-120	Fixing Flange with ventilated tube 120mm	£4.00
AX-TC-VT-250	Fixing Flange with ventilated tube 250mm	£5.00
AX-TC-CP-90	Immersion pocket for capillary 1/2" BSP 90mm	£5.00

SPECIFICATION						
Sensitive Element:		Liquid filled coiled copper bulb				
Switching Different	tial:	2 to 5K				
Capillary:		1.5m of 2mm diameter copper				
Protection:		IP40				
Control Range:	AX-TC-95	520-35	-35 to +35°C			
	AX-TC-95	520-60	0 to 60°C			
	AX-TC-9520-90		0 to 90°C			
Switch Rating:	C1		16A(3) @ 250Vac			
	C2		6A(1) @250Vac			
Ambient Range:	Housing		0 to 90°C			
	Capillary		-30 to +150°C			

AX-TC-VT-250mm AX-TC-VT-120 AX-TC-CP-90 AX-TI-IP-3



Fixing flange 120mm



Fixing flange 250mm



Copper Immersion Pocket 90mm



Copper Immersion Pocket 90mm for up to 3 probes

THERMOSTATS

IMMERSION THERMOSTATS

AX-TI-9510



The AX-TI-9510 Immersion Thermostats are a range of units for heating, cooling and air conditioning systems where direct fitting is required by means of a pocket. These units provide a switched output based on the average temperature detected along a 90mm probe. There are versions for temperature ranges 0°C to 60°C and 0°C to 90°C.

Order Codes	List Price

Immersion Thermostat 0 to 60°C

Immersion Thermostat 0 to 90°C

Capillary Immersion Pocket 1/2" BSP 90mm

AX-TI-9510-60

AX-TI-9510-90

AX-TC-CP-90

- 2 temperature ranges
- 90mm brass probe
- 16A @ 250Vac switch rating

SPECIFICATION					
Switching Differenti	Switching Differential: 2 to 5K				
Protection:		IP40			
Control Range:	AX-TI-9510-60	0 to 60°C			
	AX-TI-9510-90	0 to 90°C			
Switch Rating:	C1	16A(3) @ 250Vac			
	C2	6A(1) @ 250Vac			
Ambient Range:	Housing	0 to 90°C			
	Probe	-30 to +150°C			

AX-TI-95-H10



A manual reset temperature limiting thermostat with failsafe where direct fitting is required by means of a pocket. These units provide a maximum temperature limiting function of water temperature detected along a 90mm probe.

- Manual reset limiter and failsafe
- 90mm brass probe

Ambient Range

16A @ 250Vac switch rating

	Order Codes		List Price
AX-TI-95-H10		Immersion Thermostat c/w manual reset temperature limiter and failsafe	£17.00
	AY TO OP OD	Capillary Immercian Pocket 1/2" BSD 00mm	£5.00

Control Range:	70 to 120°C
Switch Rating:	16A(3) @ 250Vac
Limiter Setting:	100°C
Protection:	IP40

0 to 90°C

-30 to +150°C

AX-TE-9530/40

£18.00

£18.00

£5.00



Dual Immersion Thermostats are a range of units for heating, cooling and air conditioning systems where direct fitting is required by means of a pocket. These units provide a double temperature adjustment output based on the average temperature detected along a 90mm probe. The TI-9530 range have two exposed Setpoints, the TI-9540 range have one exposed and one concealed Setpoint.

Order Codes		List Price
AX-TI-9530-60	Dual Immersion Thermostat 2 x esp sp	£37.00
AX-TI-9530-90	Dual Immersion Thermostat 1 x exp, 1 x con sp	£37.00
AX-TI-9530-120	Dual Immersion Thermostat 1 x exp, 1 x con sp	£37.00
AX-TI-9540-60	Dual Immersion Thermostat 2 x esp sp	£37.00
AX-TI-9540-90	Dual Immersion Thermostat 1 x exp, 1 x con sp	£37.00
AX-TI-9540-120	Dual Immersion Thermostat 1 x exp, 1 x con sp	£37.00
AX-TI-IP-3	Brass pocket for up to 3 probes 1/2" BSP 90mm	£7.00

Manual reset limiter and failsafe

Housing

Probe

- 90mm brass probe
- 16A @ 250Vac switch rating

Stages:		2 Stage
Switching Differenti	als:	2 to 5K
Protection:		IP40
Control Range:	-60	0 to 60°C
	-90	0 to 90°C
	-120	0 to 120°C
Switch Rating:	C1	16A(3) @ 250Vac
	C2	6A(1) @ 250Vac
Ambient Range:	Housing:	0 to 90°C
	Probe:	-30 to +150°C

SPECIFICATION

AX-TI-95-H30/40



The AX-TI-95-H30/40 Dual Immersion Thermostats are a range of units for heating, cooling and air conditioning systems where direct fitting is requires by means of a pocket. These units provide a one temperature Setpoint and a manual reset temperature limiter with failsafe features. The T-95-H30 range has one exposed Setpoint and one limiter, the TI-95-H40 range has one concealed Setpoint

Order Codes		List Price
AX-TI-95-H30-60	Immersion Limiting Thermostat 1 x exp sp	£37.00
AX-TI-95-H30-90	Immersion Limiting Thermostat 1 x exp sp	£37.00
AX-TI-95-H30-120	Immersion Limiting Thermostat 1 x exp sp	£37.00
AX-TI-95-H40-60	Immersion Limiting Thermostat 1 x con sp	£37.00
AX-TI-95-H40-90	Immersion Limiting Thermostat 1 x con sp	£37.00
AX-TI-95-H40-120	Immersion Limiting Thermostat 1 x con sp	£37.00
AX-TI-IP-3	Immersion pocket up to 3 probes 1/2" BSP 90mm	£7.00

- Manual reset limiter and failsafe
- 90mm brass probe
- 16A @ 250Vac switch rating

SPECIFICATION			
Control Range:		As per AX-TI-9530/40	
Switching Differe	ential:	2 to 5K	
Limiter Setting:		100°C	
Control Range:	-60	0 to 60°C	
	-90	0 to 90°C	
	-120	0 to 120°C	
Switch Rating:	C1	16A(3) @ 250Vac	
	C2	6A(1) @ 250Vac	
	Safety	16A(3) @ 250Vac	

TEMPERATURE & RELATIVE HUMIDITY

Annicom proudly manufacturers the entirety of our Temperature & RH sensors in the UK; from our proprietary AXIO enclosure, to our indelible silver metallised polypropylene labels, and our high quality 316 Stainless Steel probes and pockets.

Our RH&T Transmitters are renowned for their stability and accuracy, and this year we're proudly introducing 2% versions across the range. We are the only company in the industry to offer a Thimble RH&T Transmitter, complete with removable lead.

- **33 36** Temperature Sensors
- 27 38 Relative Humidity & Temperature Transmitters
 - 39 Relative Humidity Sensors & Humidistats

DID YOU KNOW?

We can brand any of our Temperature Sensors. This can be done either with an indellible silver metallised label, or even with your name and/or logo injection moulded into the lid.

TEMPERATURE & RELATIVE HUMIDITY

SPACE & FLYING LEAD TEMPERATURE SENSORS

AX-TE-Rx

SPACE TEMPERATURE SENSORS - THERMISTOR & ANALOGUE OUTPUTS



A range of high-quality, UK-made Room/Space Temperature sensors for use with a wide variety of HVAC control equipment.

The AX-TE-R range is designed for both direct surface mounting and with fixing holes for standard recessed patress and conduit boxes with maximised air flow tor fast response times. The Setpoint version adds a 1-11Kohm Setpoint for direction connection to either a BMS or Annicom's range of intelligent controllers.

The new TX-W version features 16 jumper selectable temperature ranges, and both loop powered 4-20mA and 0-10Vdc outputs on the same unit.

FFATURES

- Low profile flame-retardant housing
- Suitable for direct surface mounting or for use with a recessed patress
- Large range of sensor options

				100
Order Codes	Description		1+	20+
AX-TE-RT	10K3A1	Trend, Innotech, Trane, Priva	£4.50	£4.00
AX-TE-R3K	3K3A1	Alerton	£5.00	£4.50
AX-TE-RA	10K4A1	York & Andover	£5.00	£4.50
AX-TE-RH	20K6A1	Honeywell	£6.00	£5.50
AX-TE-RD	30K6A1	Drayton	£6.00	£5.50
AX-TE-R50K	50K6A1	Priva	£6.00	£5.50
AX-TE-RNIK	Ni1000a/TCR	Siemens	£8.00	£10.00
AX-TE-R100	PT100a	Serek	£6.75	£6.25
AX-TE-R1K	PT1000a	Cylon	£7.00	£6.00
AX-TE-R2.2K	2.2K	Johnsons	£5.00	£6.25
AX-TE-RSAT	SAT1	Satchwell	£9.00	£8.00
AX-TE-RTAC	1K87A1	TAC	£6.00	£5.00
- SP	1-11KOhm Setp	oint	+ £8.00	+ £8.00
AX-TE-RTX-W	4-20mA loop-po	wered & 0-10Vdc - Wide Range	£45.00	£42.00

SPECIF	ICATION
Housing:	ABS (Flame retardant)
Dimensions - Sensor	85 x 85 x 25mm
Dimensions - Transmitter	70 x 119 x 32mm
Protection:	IP30
Ambient Range:	-10 to +60°C
Weight:	130g / 290g (AX-TE-RTX-W)
Colour:	Off white

AX-TE-Fx

FLYING LEAD TEMPERATURE SENSORS - THERMISTOR & ANALOGUE OUTPUTS



Note: Longer cable lengths available on request. Contact the sales office for details.

High quality sensors with 2 metre of screened cable. This year we have made several of our most popular versions are 5 metres and IP68 as standard, offering the highest possible protection against dust and water ingress at better prices. These -W versions can be directly immersed in water of sensing temperature or be fitted to pockets for an extremely cost effective method of monitoring temperatures in pipe

The -SS version includes a conformal coating and silicone potting into a stainless steel cap. This offers increased protection against condensation (non -W variants.)

The new TX-W version features 0-10Vdc Output and loop powered 4-20mA on the same unit, with up to 16 jumper selectable ranges on board, mounted in the standard AXIO enclosure.

FEATURES

- Cost effective solution complete with cable
- Low profile cap
- Large range of sensor options
- Several versions are IP68 and 5 Meters as standard
- Cut and strip to any length

Order Codes	Description			List Price
AX-TE-FT-W	10K3A1 IP68 2m	n Trend, Inr	notech, Trane, Priva	£4.00
AX-TE-FT-W-5m	As above with 5m	cable length		£5.50
AX-TE-F3K	3K3A1	2m	Alerton	£4.25
AX-TE-F3K-5m	As above with 5m	cable length		£6.00
AX-TE-FA	10K4A1	2m	York & Andover	£4.00
AX-TE-FA-5m	As above with 5m	cable length		£5.50
AX-TE-FH-W-5m	20K6A1	5m	Honeywell	£5.00
AX-TE-F50K-W-5m	50K6A1	5m	Priva	£5.50
AX-TE-FNIK-W-5m	Ni1000a/TCR	5m	Siemens	£7.00
AX-TE-F100-W-5m	PT100a	5m	Serek	£6.50
AX-TE-F1K-W	PT1000a		Cylon	£6.00
AX-TE-FSAT	SAT1		Satchwell	£9.00
AX-TE-FTAC	1K87A1		TAC	£5.00
AX-TE-FTX-W	4-20mA loop-pow	ered & 0-10Vd	c - Wide Range	£35.00
-SS	Stainless Steel Ca	ap with Ingress	Protection	Add £1.25

CIFICATION
2 metres or 5 metres
IP54 (IP68 version)
Acetyl (stainless option)
40 x 7.5mm dia
-10 to +60°C
80g (Refer to data sheet for FTX-W)

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99



IMMERSION & DUCT TEMPERATURE SENSORS

AX-TE-Ix



The AX-TE-Ix range of Immersion Temperature Sensors interface with a wide variety of HVAC control equipment. The sensor housing offers IP65 protection against water and particulate ingress. The stainless steel probe features a sophisticated water-proofing technique that most manufacturers cannot offer as standard, to negating any water ingress.

Annicom offers a 150mm high-quality stainless steel pockets to suit our immersion sensors, featuring pressure tested single piece construction.

The new TX-W version features 0-10Vdc Output, and loop powered 4-20mA on the same unit, with up to 16 jumper selectable ranges on

Add the suffix -65 for 65mm versions of our pockets and sensors.

- IP65 flame-retardant housing
- No direct contact with media
- Large range of sensor options
- High temperature stainless steel probe available at extra cost
- 316 Stainless Steel Probe
- Branded / blank versions available
- Custom probe lengths available



				BR
Order Codes	Description		1+	20+
AX-TE-IT	10K3A1	Trend, Innotech, Trane, Priva	£9.50	£9.00
AX-TE-I3K	3K3A1	Alerton	£9.50	£9.00
AX-TE-IA	10K4A1	York & Andover	£10.00	£9.50
AX-TE-IH	20K6A1	Honeywell	£11.00	£10.00
AX-TE-ID	30K6A1	Drayton	£11.00	£10.00
AX-TE-INIK	Ni1000a/TCR	Siemens	£12.00	£11.50
AX-TE-I100	PT100a	Serck	£12.00	£10.00
AX-TE-I1K	PT1000a	Cylon	£12.00	£11.50
AX-TE-I2.2K	2.2K	Johnsons	£10.50	£10.00
AX-TE-ISAT	SAT1	Satchwell	£15.00	£14.50
AX-TE-ITAC	1K87A1	TAC	£11.50	£11.00
AX-TE-ITX-W	4-20mA loop-po	wered & 0-10Vdc - Wide Range	£44.00	£42.00
AX-TE-ISP	Pocket - 150mm	ı - 316 Stainless Steel	£7.75	£6.95
AX-TE-ISP-65	Pocket - 65mm	- 316 Stainless Steel	£7.75	£7.50

SPEC	IFICATION
Housing:	ABS
Probe:	Stainless steel
Dimensions: housing	55 x 90mm diam
Probe	150 x 6mm diam
Small probe	65 x 7mm diam
Protection:	IP65
Ambient Range:	-10 to +80°C
Weight:	165g (See data sheet for ITX-W)

AX-TE-Dx



The AX-TE-Dx range of Duct Temperature Sensors interface with a wide variety of HVAC control equipment. The sensor housing offers IP65 protection against water and particulate ingress. The stainless steel probe is left open for optimum airflow and rapid sensor response. yet remains sealed from the enclosure.

Our UK-made Temperature Sensors feature Annicom's proprietary AXIO enclosure. This UK moulded housing can be branded, or ordered blank with/without custom labels. Call the Sales Team for more information

The new TX-W version features 16 jumper selectable temperature ranges, and both loop powered 4-20mA and 0-10Vdc outputs on the

- IP65 flame-retardant housing
- Branded / blank versions available Cross-axial flow tip for maximum accuracy
- Large range of sensor options
- Direct Fixing, no extra brackets required
- 316 Stainless Steel Probe

Order Codes	Description		1+	20+
AX-TE-DT	10K3A1	Trend, Innotech, Trane, Priva	£8.50	£7.25
AX-TE-D3K	3K3A1	Alerton	£9.50	£9.00
AX-TE-DA	10K4A1	York & Andover	£9.50	£8.25
AX-TE-DH	20K6A1	Honeywell	£10.00	£8.25
AX-TE-DD	30K6A1	Drayton	£10.00	£9.50
AX-TE-DN1K	Ni1000a/TCR	Siemens	£12.00	£10.00
AX-TE-D100	PT100a	Serek	£11.25	£10.75
AX-TE-D1K	PT1000a	Cylon	£11.25	£9.00
AX-TE-D2.2K	2.2K	Johnsons	£10.00	£9.00
AX-TE-DSAT	SAT1	Satchwell	£14.00	£11.75
AX-TE-DTAC	1K87A1	TAC	£10.50	£8.00
AX-TE-DTX-W	4-20mA loop-p	owered & 0-10Vdc - Wide Range	£44.00	£42.00

	CIFICATION
Housing:	ABS (Flame retardant)
Probe:	Stainless steel
Dimensions: Housing	55 x 90mm diam
Dimensions: Probe	150 x 6mm diam
Protection:	IP65
Ambient Range:	-10 to +80°C
Weight:	165g (refer to a data sheet for DTX-W)

TEMPERATURE & RELATIVE HUMIDITY

STRAP-ON, OUTSIDE & AVERAGING TEMPERATURE SENSORS

AX-TE-Sx



Note: High temperature versions suitable for temperatures 0 to 400°C. Contact the sales office for prices and details.

Annicom Strap-On Temperature Sensors feature a 2m cable and a high-quality, stainless steel strap and bent flush-fit lug for excellent thermal conductivity. The strap can be cut to length for further flexibility.

The new TX-W version features 0-10Vdc Output, and loop powered 4-20mA on the same unit, with up to 16 jumper selectable ranges on board, mounted in the standard AXIO enclosure.

Order Codes			1+	20+
AX-TE-ST	10K3A1	Trend, Innotech, Trane, Priva	£10.50	£9.50
AX-TE-S3K	3K3A1	Alerton	£10.50	-
AX-TE-SA	10K4A1	York & Andover	£10.50	£9.50
AX-TE-SH	20K6A1	Honeywell	£11.50	£10.50
AX-TE-SD	30K6A1	Drayton	£11.50	£11.00
AX-TE-SNIK	Ni1000a/TCR	Siemens	£13.50	£12.50
AX-TE-S100	PT100a	Serek	£12.00	£11.50
AX-TE-S1K	PT1000a	Cylon	£12.00	£11.50
AX-TE-S2.2K	2.2K	Johnsons	£11.00	-
AX-TE-SSAT	SAT1	Satchwell	£15.00	£14.50
AX-TE-STAC	1K87A1	TAC	£11.00	£10.50
AX-TE-STX-W	4-20mA loop-po	wered & 0-10Vdc - Wide Range	£43.00	-

- Solution complete with pipe strap
- Large range of sensor options Stainless Steel Bent Lug
- Branded / blank versions available

SP	ECIFICATION
Housing:	ABS (Flame retardant)
Dimensions:	55 x 90mm diam
Protection:	IP54
Ambient Range:	-10 to +60°C
Weight:	130g (See data sheet for STX-W)
Cable Length:	1m

AX-TE-Ox



The sensing element of this range of Outside Air Temperature Sensors is housed in a button which is fitted to Annicom's IP65 flame-retardant ABS enclosure. Annicom's proprietary anodised external element housing provides rapid response time, and integral mounting lugs offer easy commissioning.

The new TX-W version features 0-10Vdc Output, and loop powered 4-20mA on the same unit, with up to 16 jumper selectable ranges.

				-
Order Codes			1+	10+
AX-TE-OT	10K3A1	Trend, Innotech, Trane, Priva	£8.00	£7.20
AX-TE-O3K	3K3A1	Alerton	£8.50	-
AX-TE-OA	10K4A1	York & Andover	£8.00	£7.20
AX-TE-OH	20K6A1	Honeywell	£9.00	£8.20
AX-TE-OD	30K6A1	Drayton	£9.00	-
AX-TE-ONIK	Ni1000a/TCR	Siemens	£11.00	£10.00
AX-TE-O100	PT100a	Serck	£10.00	£9.00
AX-TE-O1K	PT1000a	Cylon	£10.00	£9.00
AX-TE-O2.2K	2.2k	Johnsons	£8.00	-
AX-TE-OSAT	SAT1	Satchwell	£13.00	£10.00
AX-TE-OTAC	1K87A1	TAC	£9.50	£8.20
AX-TE-OTX-W	4-20mA loop-po	wered & 0-10Vdc - Wide Range	£41.00	_

- P65 flame-retardant housing
- External sensing point for rapid response Large range of sensor options
- Branded / blank versions available

SPI	ECTFICATION
Housing:	ABS (Flame retardant)
Dimensions:	55 x 90mm diam
Protection:	IP65
Ambient Range:	-10 to +60°C
Weight:	130g (See data sheet for OTX-W)

AX-TE-AVx



Note: Other lengths are available: 1.8m, 6.1m and 7.3m.

High-quality flexible averaging Temperature Sensors in a range of lengths in both flexible PVC and Copper. Copper offers greater thermal conductivity, PVC offers easy installation into difficult areas through greater flexibility.

The new TX-W version features 0-10Vdc and loop powered 4-20mA on the same unit, with up to 16 jumper selectable ranges on board.

Order Codes	Flexible PVC		List Price
AX-TE-AVF-T3	Flexible PVC - 3.6m - 10K3A1	Trend etc	£44.00
AX-TE-AVF-H3	Flexible PVC - 3.6m - 20K6A1	Honeywell	£48.00
AX-TE-AVF-1k3	Flexible PVC - 3.6m - Pt1000a	Siemens	£52.00
AX-TE-AVF-TXW-3	3.6m - 4-20mA loop-powered & 0-10Vdc	- Wide Range	£82.00
Order Codes	Copper		List Price
Order Codes AX-TE-AVC-T3	Copper - 3.6m - 10K3A1	Trend etc	List Price £65.00
		Trend etc Honeywell	
AX-TE-AVC-T3	Copper - 3.6m - 10K3A1		£65.00

- IP65 flame-retardant housing
- External sensing point for rapid response
- Large range of sensor options
- Branded / blank versions available

SPECIFICATION			
Housing:	ABS (Flame retardant)		
Dimensions:	55 x 90mm diam		
Protection:	IP65		
Ambient Range:	-10 to +60°C		
Weight:	130g (See data sheet for AVx-TX-W)		



THIMBLE, BUTTON & BLACK BULB TEMPERATURE SENSORS

AX-TE-T / TE-/B

THIMBLE & BUTTON TEMPERATURE SENSORS - PLATE OPTIONS



Temperature Sensors mounted in a thimble or button for surface mounting. The sensors are available with a range of passive thermistors. There is also a smaller button option. A full range of finishes, materials and RAL/Pantone colours are available.

The new Plate Mounting section allows you to select a plate finish. Just add the suffix of your choice and your Thimble or Button Sensors will ship pre-fitted to the selected plate.

Annicom now offers RAL and Pantone colours in a number of finishes, please call for more information.

FFATURES

- Complete with cable and nut
- Button includes fibre washer
- RAL & Pantone colours available on request
- Add any plate style of your choice, simply include the part number suffix under the plates section

Note: Other small NTC thermistor elements may also be fitted.

RAL & Pantone colours in multiple finishes now available.

Add any plate of your choice



AX-TE-Bx-PPLWhite Plastic Button on White Plate

Order Codes	[Description	List Price		
Thimble Sensors					
AX-TE-TT	10K3A1	Trend, Innotech, Trane, Priva	£11.00		
AX-TE-T3K	3K3A1	Alerton	£11.00		
AX-TE-TA	10K4A1	York & Andover	£11.00		
AX-TE-TH	20K6A1	Honeywell	£17.00		
AX-TE-TN1K	Ni1000a/TCR	Seimens	£15.00		
AX-TE-T100	PT100a	Serek	£15.00		
AX-TE-T1K	PT1000a	Cylon	£13.00		
AX-TE-TSAT	SAT1	Satchwell	£16.00		
AX-TE-TTAC	1K87A1	TAC	£17.00		
-AL	Aluminium thimble	Aluminium thimble			
-SS	Stainless thimble		£22.00		
-BR	Brass thimble		£12.00		
	But	ton Sensors			
AX-TE-BT-P	White Plastic with 10K3A1 element		£8.00		
AX-TE-BT-S	Stainless steel button with 10K3A1 element		£9.00		
AX-TE-BT-B	Brass button with 10K3A1 element		£11.00		
AX-TE-BT-C	Chrome button with	10K3A1 element	£13.00		
	Plat	te Mounting			
-PPL	White Plastic Plate		+ £4.00		
-PSS	-PSS Brushed Stainless Steel Plate		+ £11.50		
-PBR Polished Brass Plate		+ £12.50			
-PCR Polished Chrome Plate		+ £16.00			



AX-TE-Tx-PPLWhite Plastic Thimble on White Plate

SPECIFICATION		
Thimble:	Plastic	
Dimensions:	45 x 22mm diam	
Cable Length:	2m (button lead is 250mm)	
Protection:	IP30	
Ambient Range:	-10 to +60°C	
Weight:	80g (Refer to data sheet for TX-W)	

Low profile flame-retardant housing

Suitable for direct surface mounting

Large range of sensor options

AX-TE-RBN-x

BLACK BULB TEMPERATURE SENSORS - THERMISTOR & ANALOGUE OUTPUTS



Used for radiant heat in indoor applications, the sensors are designed to interface with a wide variety of HVAC control equipment. Units are available with a high quality thermistor element. Black Bulb Sensors are used to calculate comfort temperature which is specified as the average of the conductive and radiant temperatures.

Order Codes		Description	
AX-TE-RBN-T	10K3A1	Trend, Innotech, Trane, Priva	£23.00
AX-TE-RBN-3K	3K3A1	Alerton	£23.00
AX-TE-RBN-A	10K4A1	York & Andover	£23.00
AX-TE-RBN-H	20K6A1	Honeywell	£24.00
AX-TE-RBN-D	30K6A1	Drayton	£24.00
AX-TE-RBN-N1K	Ni1000a/TCR	Seimens	£26.00
AX-TE-RBN-100	PT100a	Serek	£25.00
AX-TE-RBN-1K	PT1000a	Cylon	£25.00
AY-TE-PRN-SAT	SAT1	Satchwell	£27 00

SPECIFICATION				
Housing:	ABS (Flame retardant)			
Dimensions: Sensor	85 x 85 x 25mm			
Protection:	IP30			
Ambient Range:	-10 to +60°C			
Weight:	140g			
Colour:	Off white			

AX-TE-RBN-TAC

1K87A1

TEMPERATURE & RELATIVE HUMIDITY

RELATIVE HUMIDITY & TEMPERATURE TRANSMITTERS

AX-TE-WSP



Wall mounted temperature transmitter with attractive blue backlight. Features include 0-10Vdc outputs for both temperature and Setpoint, standard fitment to a standard single-gang backbox.

Modbus RTU version increases flexibility and is offered at an extremely competitive price point.

- Fits a standard single gang back box
- Attractive blue backlight
- Momentary button available
- ModBus RTU version available
- Thermistor output version available

Order Codes		List Price
AX-TE-WSP	Temperature Transmitter & Setpoint - 2x 0-10Vdc	£45.00
AX-TE-WSP-MB	ModBus RTU Version	£95.00
-M	Additional Momentary Button	+ £15
-T	Thermistor Output Option (Not Available on -MB)	+ £10

SPECIFICATION		
Power Supply: Voltage		24Vac/dc ±15%
	Current	See data sheet
Output:	Standard	2x 0-10Vdc
Optional for temperature		Thermistor
Temperature Ra	ange:	-10 to +40°C
Temperature A	ccuracy:	±0.1°C
Ambient Range:		0 to 50°C
Setpoint Range:		15 to 35°C Custom Ranges Available

AX-RHT-Sx

ROOM / SPACE RELATIVE HUMIDITY & TEMPERATURE TRANSMITTERS - 2% & 3%



High-quality, cost effective Room (space) RH&T Transmitters available in both 2% and 3% accuracy versions. Jumper-selectable outputs and an optional direct resistance temperature output make these units very flexible solution. The units will fit a standard single-gang back box.

- Fits a standard single gang back box.
- 2% and 3% RH accuracy available
- High stability & reliability
- 0-5/10Vdc or 4-20mA selectable outputs

Order Codes		List Price
AX-RHT-S3	Room - 3% Accuracy - 0-10Vdc / 4-20mA	£60.00
AX-RHT-S3-x	Room - 3% Accuracy - 0-10Vdc / 4-20mA + Thermistor	£65.00
AX-RHT-S2	Room - 2% Accuracy - 0-10Vdc / 4-20mA	£75.00
AX-RHT-S2-x	Room - 2% Accuracy - 0-10Vdc / 4-20mA + Thermistor	£80.00

SPECIFICATION			
Power Supply:	Voltage	24Vac/dc ±15%	
	Current	See data sheet	
Output:	Standard	4-20mA or 0-5 or 0-10Vdc	
	Optional for temperature	Thermistor	
Temperature Ra	ange:	-10 to +40°C	
Temperature Accuracy:		±0.1°C	
Sensor Type:		Capacitive	
RH Range:		0-95%	
RH Accuracy:		2% or 3%*	
Stability:		±1% RH at 50% in 5 years	
Ambient Range:		0 to 50°C	

AX-RHT-Dx



Note: Wet bulb,

Dewpoint and

Enthalpy sensors

now available.

for both Humidity and Temperature. Outputs are individually selectable for either 4-20mA or 0-10Vdc and an optional direct resistive temperature output provides superb flexibility.

Duct mounted RH & T Transmitters offer very high-quality sensing

Housed in Annicom's UK-made IP65, flame-retardant enclosure with a 316 stainless steel probe, the AX-RHT-D range of transmitters are an obvious choice at a very competitive price point.

Order Codes List Price AX-RHT-D3 £70.00 Duct - 3% Accuracy - 0-10Vdc / 4-20mA AX-RHT-D3-x Duct - 3% Accuracy - 0-10Vdc / 4-20mA + Thermistor £75.00 AX-RHT-D2 Duct - 2% Accuracy - 0-10Vdc / 4-20mA £85.00 AX-RHT-D2-x Duct - 2% Accuracy - 0-10Vdc / 4-20mA + Thermistor £90.00

- High-quality 316 stainless steel probe
- 2% and 3% RH accuracy available
- High stability & reliability 0-5/10Vdc or 4-20mA selectable outputs

SPECIFICATION			
Power Supply:	Voltage	24Vac/dc ±15%	
Output:	Standard	4-20mA or 0-5 or 0-10Vdc	
	Optional for temperature	Thermistor	
Temperature Range:		-10 to +70°C	
Temperature Accuracy:		±0.1°C	
Sensor Type:		Capacitive	
RH Range:		0-95%	
RH Accuracy:		2% or 3%*	
Stability:		±1% RH at 50% in 5 years	
Ambient Range:		0 to 50°C	

*(between 5 & 95%RH)



RELATIVE HUMIDITY & TEMPERATURE TRANSMITTERS

AX-RHT-Ox



Wall mounted RH & T Transmitters that offer a cost effective solution for RH and temperature measurement. Optional direct resistive temperature output. Outputs are individually selectable for either 4-20mA or 0-10Vdc and an optional direct resistive temperature output provides superb flexibility.

Housed in Annicom's UK-made IP65, flame-retardant enclosure, the unit features a proprietary external element housing for better accuracy and response times.

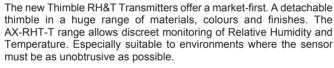
- Proprietary end cap improves response
- 2% and 3% RH accuracy available
- High stability & reliability
 0-5/10Vdc or 4-20mA selectable outputs

Note: Wet bulb, Dewpoint and Enthalpy sensors also available

Order Codes		List Price
AX-RHT-O3	Outside - 3% Accuracy - 0-10Vdc / 4-20mA	£70.00
AX-RHT-O3-x	Outside - 3% Accuracy - 0-10Vdc / 4-20mA + Thermistor	£75.00
AX-RHT-O2	Outside - 2% Accuracy - 0-10Vdc / 4-20mA	£85.00
AX-RHT-O2-x	Outside - 2% Accuracy - 0-10Vdc / 4-20mA + Thermistor	£90.00

SPECIFICATION			
Power Supply:	Voltage	24Vac/dc ±15%	
	Current	See data sheet	
Output:	Standard	4-20mA or 0-5 or 0-10Vdc	
	Optional for temperature	Thermistor	
Temperature Range:		-20 to +50°C	
Temperature Accuracy:		±0.1°C	
Sensor Type:		Capacitive	
RH Range:		0-95%	
RH Accuracy:		2% / 3% (between 5 & 95%RH)	
Stability:		±1% RH at 50% in 5 years	
Ambient Rang	e:	0 to 50°C	

AX-TE-Tx



Features include 0-5/10Vdc or 4-20mA available through jumper selection and a splash-proof connector for safe detachment of the the thimble. Housed in Annicom's UK-made IP65, flame-retardant enclosure.

- Detachable Thimble for easy installation
- 2% and 3% RH accuracy available
- High stability & reliability
 White ABS Thimble as standard
- Brass, aluminium or stainless steel Thimble options
- 0-5/10Vdc or 4-20mA selectable outputs

Order Codes	N.B. Minimum quantities apply for the colour variants	List Price
AX-RHT-T3	Thimble - 3% Accuracy - 0-10Vdc / 4-20mA	£90.00
AX-RHT-T3-x	Thimble - 3% Accuracy - 0-10Vdc / 4-20mA + Thermistor	£95.00
AX-RHT-T2	Thimble - 2% Accuracy - 0-10Vdc / 4-20mA	£105.00
AX-RHT-T2-x	Thimble - 2% Accuracy - 0-10Vdc / 4-20mA + Thermistor	£110.00
-AL	Aluminium Thimble	Add £10
-BR	Brass Thimble	Add £25
-SS	Stainless Steel Thimble	Add £25
-RAL	RAL colour for Thimble - specify RAL Colour & Finish	P.O.A
-PAN	Pantone colour for ABS - specify Pantone Colour & Finish	P.O.A

SPECIFICATION			
Power Supply:	24Vac/dc ±15%		
Output: Standard	4-20mA or 0-5 or 0-10Vdc		
Thimble:	White ABS as standard		
	Stainless Steel, Brass, Aluminium		
Sensor Type:	Capacitive		
RH Range:	0-95%		
RH Accuracy:	2% / 3% (between 5 & 95%RH)		
Stability:	±1% RH at 50% in 5 years		
Temperature Range:	0 to +50°C		
Temperature Accuracy:	±0.1°C		
Ambient Range:	0 to 50°C		

TEMPERATURE & RELATIVE HUMIDITY

RELATIVE HUMIDITY SENSORS & HUMIDISTATS

AX-RH-RES-x

Wall or ceiling mounted Relative Humidity Space sensor with a resistive output, there are 230 and 24Vac versions. A wide range of resistance curves can be output matched.

- Standard 3% Accuracy 1% RH Resolution
- Fits into standard single back box
- 230Vac & 24Vac options
- Resistive Output for direct connection to BMS Systems and Thermostats



Order Codes	X- Specify Thermistor Output	List Price
AX-RH-RES-230x	230Vac RH Sensor c/w resistive o/p	P.O.A
AX-RH-RES-230Q	230Vac RH Sensor c/w Siemens RDF/RDG output	£52.00
AX-RH-RES-24x	24Vac RH Sensor c/w resistive o/p	P.O.A
AX-RH-RES-24Q	24Vac RH Sensor c/w Siemens RDF/RDG output	£48.00

SPECIFICATION		
Power Supply: -230		230Vac ±15%
	-24	24Vdc ±15%
Accuracy:		Approx 5% RH
RH Resolution:		1% RH
Sensor Type:		Planar Capacitive Polymer
Output Range:		10 to 90% RH
Output:		Resistance (max current of 1mA)
Ambient Tempe	erature:	0 to +50°C

AX-RH-Hx





Wall or duct mounted Humidistats designed for the on/off control of humidification or dehumidification equipments, or the initiation of alarms or override controls.

- Single or Dual stage units available
- Duct or Space mounted
- High stability and reliability
- Switch mains voltage

Order Codes		List Price
AX-RH-HSC120-E	Room Humidistat, single stage, exposed Setpoint	£73.00
AX-RH-HSC120-C	Room Humidistat, single stage, concealed Setpoint	£73.00
AX-RH-HBC111-E	Duct Humidistat, single stage, exposed Setpoint	£186.00
AX-RH-HBC111-C	Duct Humidistat. single stage, concealed Setpoint	£186.00
AX-RH-HBC112-E	Duct Humidistat, dual stage, exposed Setpoint	£250.00
AX-RH-HBC112-C	Duct Humidistat, dual stage, concealed stage	£250

SPECIFICAT	ION
Accuracy:	±5% RH
Stability Long Term:	>1.5% RH
Stage Differential:	2 to 15% RH
Differential per Stage:	6% RH
Switch Rating Resistive (Inductive):	5(3)A @ 250Vac

EMERGENCY, DISPLAYS & WATERLEAK DETECTION

Annicom has a large range of Alarm Annunciators and Integrators and an ever increasing range of Water Leak Detection Units to help protect your computers, plants and buildings.

Combined with a large range of displays and emergency products, the AXIO brand offers a comprehensive Emergency and Waterleak Detection range.

- 39 Alarm Integrators & Annunciators
- 40 Displays LCD & LED
- 41 Water Leak System, Condensation & Plant Extension
- **42** Emergency Products

DID YOU KNOW?

Annicom designs and manufactures many large LED displays for Operating, Clean and Intensive Care Rooms in hospitals.

EMERGENCY, WATERLEAK & DISPLAYS

ALARM INTEGRATORS, ANNUNCIATORS & PLANT EXTENSION TIMERS

AX-MA-x

ALARM INTEGRATORS - 10/20 CHANNEL 24AC/DC & 230VAC



Multi-channel Alarm Integrators which monitor either 10 or 20 input channels and provide a relay output in the event of an alarm signal. The units are self powered from the alarm input.

FEATURES

- Self powered units on 24Vac
- 10 or 20 alarm input contacts
- 20 Channel option includes a mute relay

Order Codes		List Price
AX-MA-10-24	24Vac/dc 10 ch Alarm Integration module	£18.00
AX-MA-10-230	230Vac 10 ch Alarm Integration module	£21.00
AX-MA-20-24	24Vac/dc 20 ch Alarm Integration module	£32.00
AX-MA-20-230	230Vac 20 ch Alarm Integration module	£35.00

SPECIFICATION			
Power Supply:	230Vac	230Vac	
	24Vac/dc	Self powered	
Output:		1 x SPCO relay	
Contact Rating: 10 channels		8A @ 250Vac (res)	
Contact Rating: 2	0 Channels	5A @ 250Vac (res)	

AX-AA-x

ALARM ANNUNCIATORS - 1 TO 4 CHANNEL



The AX-AA range of Alarm Annunciators accept a Volt Free Contact to provide audible and visual alarms at a very competitive price point. Features include adjustable threshold and time delay, versions with up to 4 channels and an alarm output relay.

On detection of an alarm condition, the buzzer sounds and the relevant alarm LED changes from green to red. The alarm mute button enables the buzzer to be muted at any time. The LED will not reset until the alarm condition returns to the normal state.

FEATURES

- VFC input
- 1, 2, 3 or 4 channel versions available
- High or low alarm jumper selectable
- Alarm output relay
- Audible alarm & mute button
- Multi-colour LEDs for easy identification

Order Codes		List Price
AX-AA-1	Alarm Annunciator - 1 channel	£45.00
AX-AA-2	Alarm Annunciator - 2 channel	£50.00
AX-AA-3	Alarm Annunciator - 3 Channel	£55.00
AY AA 4	Alarm Annunciator 4 channel	£60.00

	SPECIFI	CATION
Power Supply:		24Vac/dc ±15%
Input:		VFC or 12/24Vac or Dc
Alarm Delay:		5 to 30 secs
Relay Output:		SPCO
Relay Rating:		10A @ 240Vac (res)
Buzzer:		80db @ 0.2m
Mounting:		85 x 85mm single gang plate
Ambient Range:		0 to 50°C
LED Indication:	Green	= OK
	Flashing Red	= Alarm
	Red	= Muted Alarm

AX-PET

PLANT EXTENSION TIMER



Note: Custom times and countdowns are available as special orders.

The AX-PET is an electronic Timer Switch that provides energy saving functionality in ventilation, boiler and lighting installations.

It is ideal for applications where a simple interface is required to control the extension times of the plant or other device. The unit has a red LED display and a push button to change the extension time.

Custom timers and engraving are available upon request.

Order Codes List Price AX-PET Plant Extension Timer £39.00

- 24Vac or 230Vac operation
- LED display
- Flush or surface mounting

Power Supply:	24Vac or 230Vac
Contact Rating:	10A @ 230Vac (res)
Output Contacts:	1 x SPDT
Time Selection:	10,20,30,40,50,60,70,80,90 minutes then 2,3,4,5,6,7,8,9 Hours
Ambient Range:	0 to 50°C
Protection:	IP20
Dimensions:	85mm x 85mm x 14mm

DISPLAYS - LCD & LED

AX-LCD-x

LOOP POWERED DIGITAL LCD PANEL METER



A compact loop-powered LCD Digital Panel Meter giving an accurate zero corrected indication of 4-20mA loop current. LCD-2 and LCD-3 are Voltmeters.

Calibration is by two multi-turn potentiometers which allow sensitive adjustment of the instrument. No soldering is required. Connection to the current loop is via two screw terminals.

The correct decimal point is selected via a jumper link. The displays are mounted in a single gang front plate, or in the case of the LCD-3 a stainless steel plate.

Custom engraving is available, please call for a quotation.

FEATURES

- 11mm or 19mm digit height
- Programmable decimal point
- Simple screw terminal connections
- Loop powered LED backlighting on LCD-342
- Low voltage drop

Order Codes	Prices vary dependant on specification; engraving etc	List Price
AX-LCD-342	Single Gang Front Plate - 11mm LCD Display	£POA
AX-LCD-942	Single Gang Front Plate - 19mm LCD Display	£POA
AX-LCD-2	Single Gang Front Plate - 2x 11mm LCD Displays	£POA
AX-LCD-3	Hospital Display Unit - 3x LCD displays and 2x LEDs	£POA

SPECIFICATION			
Power Supply:	LCD-2	24Vac/dc	
Supply Current:	342/942	20mA	
	LCD-2	120mA @24Vac	
Input:	342/942	4-20mA loop powered	
	LCD-2	2 x 0-10Vdc	
LCD Display:	342	11mm height : 4 digit + decimal	
	942	19mm height : 4 digit + decimal	
Accuracy:		Max 0.1	
Linearity:		±1	
Sample Rate:		3 samples per second	
Supply Current:		20mA	
Ambient Range:		0 to +50°C	

AX-LED-57-x

57mm LED DISPLAY - 0-10Vdc or THERMISTOR

A range of very large red LED displays mounted in a ventilated wall mounted enclosure. The units feature 57mm high red digits, with decimal display, and are engraved according to requirements. The RH and Pressure versions require a 0-10Vdc I/P and the temperature version can have a thermistor.

The AX-LED-57 is perfect for large, populated areas such as gymnasiums and swimming pools.

- 57mm digit height
- 0-10Vdc I/P (or in built thermistor for temperature)
- Simple screw terminal connections



Order Codes	Other variants available	List Price
AX-LED-57-T	Enclosure Mounted LED display - Temperature	£190.00
AX-LED-57-P	Enclosure Mounted LED display - Pressure	£185.00
AX-LED-57-R	Enclosure Mounted LED display - RH	£185.00

SPECIFICATION				
24 ac/dc				
218(W) x 108(H) x 45(D) mm				
to 40°C (as standard)				
) to 999 Pa				
) to 100% RH				
3 x digit 7 segment 57mm height				
0.2°C or 1 Pa				
Red (Green option)				
White ABS Plastic				
to 50°C				
0-10Vdc				
10K3A1 (built in) (or 0-10V)				
2				

EMERGENCY, WATERLEAK & DISPLAYS

WATERLEAK DETECTION SYSTEM, CONDENSATION AND PLANT EXTENSION

AX-WLD2-

WATERLEAK DETECTION SYSTEM & ACCESSORIES



The AX-WLD2 range of Two Zone Water Leak Detection products is designed for DIN rail mounting wherever localised water leak detection is required. The cable used will not be subject to oxidisation or erosion over time, due to an isolated AC signal for cable excitation.

A relay output provides an alarm signal to a BMS controller or a remote alarm annunciator. LED indication and sensitivity adjustment ensure easy commissioning.

FEATURES

- Huge range of sensors
- 2 sensor inputs for two channels of detection
- LED Indication of each zone and relay on
- AC detector excitation for reliability
- Audible alarm option
- Adjustable Sensitivity
- Custom cable lengths for the WCS are available up to 200 metres.
- Custom header cable lengths are also available



AX-WR\$1 Rain Detector with Cable and Bracket

Order Codes		List Price
AX-WLD2-24	Two Zone 24V alarm detection module	£31.00
AX-WLD2-230	Two Zone 230Vac alarm detection module	£38.00
AX-WLD2-24-A	Two Zone 24V alarm detection module + alarm	£38.00
AX-WLD2-230-A	Two Zone 230Vac alarm detection module + alarm	£45.00
AX-WLD2-Enc	Enclosure for WLD2	£14.00
AX-WLD-DTA	Drip tray alarm in an enclosure	£48.00
AX-WCS-2	Cable sensor for WLD2, 2m cable 1m leader	£18.50
AX-WCS-5	Cable sensor for WLD2, 5m cable 3m leader	£24.00
AX-WCS-10	Cable sensor for WLD2, 10m cable 3m leader	£42.00
AX-WCS-15	Cable sensor for WLD2, 15m cable 3m leader	£60.00
AX-WCS-20	Cable sensor for WLD2, 20m cable 3m leader	£74.00
AX-WCS-xx	Customer spec for cable and header	£POA
AX-WPS	Point sensor for WLD2 & 2m cable	£15.00
AX-WRS1	Rain sensor with 1m cable for WLD2	£42.00

SPECIFICATION			
Supply Voltage:	WLD2-24	24Vac/dc @ 50Hz ±15%	
	WLD2-230	230Vac @ 50Hz ±15%	
Supply Current:	50mA max		
Output:	SPCO relay		
Max Cable Length:	200m leak cable & leader cable per zone		
Contact Rating:	10A @ 250Vac (res)		
Alarm Hysteresis:	Depends on	sensitivity setting	
Audible Alarm Output: (if -A version)	75bd @ 2.3H	Hz @ 10cm (when fitted)	
Ambient Range:	-10 to +50°C	, 0-90% RH condensing	

AX-CDM

CONDENSATION DETECTOR - 5 METER CABLE



A self-contained sensor whose main application is the early detection of condensation in chilled-beam air conditioning systems to prevent 'indoor rain'.

The AX-CDM is installed on the coldest part of the cooling system using the supplied cable tie. The unit can be used in a 2-wire current output mode, or alternatively with the volt free change over contacts.

Useful for any application where early detection of condensation on a surface is required.

- Early detection of condensation on Chilled Beams and other surfaces
- Current Output or Volt Free Contacts
- Supplied cable-tie offers easy installation

Order Codes		List Price
AX-CDM	Condensation Detector - 5 metre cable	£48.00

SPECIFICATION				
Supply Voltage:		16-30Vdc / 24Vac ±10% at 50mA max.		
Output:	2 wire	Dry < 12mA wet >18mA		
	4 wire	VFC @120Vac / 24Vdc 1Amp max		
Connections:		5m flying lead		
Weight / Dimensions:		120grms 90(W) x 45(H) x 32(D) mm		
Ambient Temperature:		0°C to 50°C		

EMERGENCY PRODUCTS

AX-EP-FM1

3 POSITION FIREMAN'S SWITCH

The AX-EP-FM1 Fireman's Switch is for use in the event of fire or other emergency. Usually located at exits to gas plant rooms, units are key operated, three position, latching switches.



AX-EP-TL2

FLECTRO-THERMAL LINK



The AX-EP-TL2 Electro Thermal Link is used to interrupt the electrical supply to a gas valve or alarm and is usually installed in a position where a fire hazard may occur e.g. above boilers. The link consists of a pressed metal enclosure with a perforated cover and temperature sensitive fuse.

AX-EP-TL2

FLECTRO-THERMAL LINK

The AX-EP-EM1 range of Emergency Stop Buttons is for use in the manual shut down of systems in the event of fire or other emergency.



Order Codes		List Price
AX-EP-FM1	3 Position Fireman's Switch	£60.00
AX-EP-FMKG	Keyguard	£20.00
AX-EP-FMW	Replacement window	£POA
AX-EP-TL2	Electro thermal link	£7.75
AX-EP-EM1	Emergency stop button - twist reset	£8.00
AX-EP-EM1K	Emergency stop button - key reset	£17.00

PRESSURE

A large range of Air and Liquid Pressure sensors and switches suitable for all environments.

Air Sensing: monitoring fans, filters and air velocity.

Static Sensing: monitoring pumps and obtaining accurate pressure ranges in liquid and air.

Liquid Differential Sensing: monitor flow status in pumps, chillers and valves.

44 Air Pressure

45 Air & Liquid Pressure + Accessories

46 - 47 Liquid Pressure



Annicom's Liquid Differential Pressure Transmitters can also be used for tank level measurement.

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 4



AIR DIFFERENTIAL PRESSURE

AX-ADPS-x

AIR DIFFERENTIAL PRESSURE SWITCHES



A range of high-quality Air Differential Pressure Switches manufactured in Europe, for flow proving and filter status monitoring applications.

The switching Setpoint is adjusted by means of a calibrated knob mounted under the main cover. The IP65 enclosure version is housed in a CNC machined IP65 housing, providing excellent dust and water ingress protection. A variety of tubes and fixing are available in the accessories section.

FEATURES

- Cost effective solution
- Mains rated switch contacts
- Optional duct fixing kit
- Option for IP65 enclosure complete with brass nipples
- Spare PVC Tubing Available (Up to 30 metres in a single length)



Order Codes		1+	20+	Box (45)
AX-ADPS-88	Range 20Pa to 300Pa (10Pa differential)	£11.95	£11.30	£10.95
AX-ADPS-83	Range 50Pa to 500Pa (10Pa differential)	£11.95	£11.30	£10.95
AX-ADPS-85	Range 200Pa to 1000Pa (100Pa differential)	£11.95	£11.30	£10.50
AX-ADPS-80-IP65	Air DP switch mounted in an IP65 housing	£35.50	-	-
AX-ADPS-83-IP65	Air DP switch mounted in an IP65 housing	£35.50	-	-
AX-ADPS-85-IP65	Air DP switch mounted in an IP65 housing	£35.50	_	-

SPECIFICATION			
Contact Rating:	1.5A @ 250Vac (res) (0.4A ind)		
Maximum Operating Pressure:	5000Pa		
Pressure Connections:	6mm I/D push on tubing		
Cable Entry:	M20 x 1.5		
Protection:	IP54 (IP65 option)		
Ambient Range:	-20 to +85°C		
Weight:	250g		

AX-ADPT-Dx

AIR DIFFERENTIAL PRESSURE TRANSMITTERS - SINGLE RANGE



High-quality, single range Air Differential Pressure Transmitters.

These units feature a very small form factor, terminal cap protector and multiple DIN rail mounting options. The AX-ADPT-D provides excellent value for money.

Order Codes		List Price
AX-ADPT-D1	Single Range: 4-20mA - 0 to 250Pa	£62.00
AX-ADPT-D2	Single Range: 4-20mA - 0 to 500Pa	£62.00
AX-ADPT-D3	Single Range: 4-20mA - 0 to 750Pa	£62.00
AX-ADPT-D4	Single Range: 4-20mA - 0 to 1250Pa	£62.00
AX-ADPT-D5	Single Range: 4-20mA - 0 to 2500Pa	£62.00
AX-ADPT-D1-V	Single Range: 0-10Vdc - 0 to 250Pa	£62.00
AX-ADPT-D2-V	Single Range: 0-10Vdc - 0 to 500Pa	£62.00
AX-ADPT-D3-V	Single Range: 0-10Vdc - 0 to 750Pa	£62.00
AX-ADPT-D4-V	Single Range: 0-10Vdc - 0 to 1250Pa	£62.00
AX-ADPT-D5-V	Single Range: 0-10Vdc - 0 to 2500Pa	£62.00

FEATURE

- Compact size
- Multi-Direction DIN rail mounting
- One touch zero & span
- Protective terminal caps included
- Supplied complete with duct fixing kit

SPECIFICATION		
Power Supply:	24Vac/dc	
Accuracy:	±2% Full Scale	
Stability:	±1% Full Scale per Year	
Temperature Limits:	32 to 122°F (0 to 50°C)	
Pressure Limits:	2 psi (13.8 kPa)	
Medium:	Air / non-combustible, compatible gases	
Output Signals:	4-20mA or 0-10V & 0-5V	
Loop Resistance:	DC = 1000Ω max. AC = 1200Ω max	
Current Consumption:	21mA max	
Electrical Connections:	Screw-type terminal block	
Enclosure:	NEMA1 (IP10)	
Agency Approval:	CE, RoHS	

AX-ADPT-DA-x

ADVANCED AIR DIFFERENTIAL PRESSURE TRANSMITTERS - MULTI-RANGE



This new DA range of multi-range, multi-output pressure transmitters offer a very rich feature set, at a compelling price point. Functions are included for velocity (M³ / sec) and volume (CFM) and options for Modbus, Bacnet and LCD Displays. Multiple ranges and multiple outputs are selectable on the unit.

The DA can measure pressure in: Pascal, inches WC, kPa or MMWC with adjustable "K" factor and digital dampening.

The unit is housed in an attractive IP65 enclosure, and ships complete with a duct fixing kit.

Order Codes		List Price
AX-ADPT-DA-1	Multi-range: 0-25Pa, 0-40Pa, 0-50Pa, 0-125Pa	£101.00
AX-ADPT-DA-2	Multi-range: 0-250Pa, 0-500Pa, 0-750Pa, 0-1250Pa	£101.00
AX-ADPT-DA-3	Multi-range: 0-2500Pa, 0-3500Pa, 0-4500Pa, 0-5500Pa	£101.00
-B	Bacnet Communications	+ £88
-M	Modbus Communications	+ £88
-L	LCD Indicator module	+ £42

- IP65 Enclosure
- Measures velocity and volume
- 4 selectable ranges
- 0-5Vdc, 0-10Vdc and 4-20mA outputs
- LCD, Modbus & BACnet available
- Very low pressure versionsSupplied complete with duct fixing kit

SPECIFICATION			
Power Supply:	24Vdc/ac		
Accuracy:	±1% FS to ±2% Full Scale		
Stability:	±1% / year Full Scale Deflection		
Temperature Limits:	0 to 150°f (-18 to 66°C)		

Stability:	±1% / year Full Scale Deflection
Temperature Limits:	0 to 150°f (-18 to 66°C)
Pressure Limits:	1 psi max, operation, 10 psi burst
Medium:	Air and compatible non-combustible gases
Output Signals:	4-20mA (2-wire), 0-5Vdc, 0-10Vdc (3-wire)
Response Time:	Adjustable: 0.5 to 15 sec. Time constant
Current Draw:	40mA max
Display (optional):	5 digit LCD
Electrical Connections:	3-wire removable European style block - 16 to 22 AWG (1.3mm² to .33mm²)
Enclosure:	IP65
Agency Approval:	BTL, CE

AIR & LIQUID PRESSURE AND ACCESSORIES

AX-ADPS-x / PVCT-x

AIR DIFFERENTIAL PRESSURE TUBING & ACCESSORIES



A range of accessories for use with our range of AX-ADP differential pressure devices. Complete Duct Fixing Kits, individual pressure tips, lengths of tubing (coloured and clear) and mounting brackets are all available

When ordering tubing, please specify length, by replacing 'x' with your chosen length in metres.

Order Codes		List Price
AX-ADPS-DFK	Standard Duct Fixing Kit: 2m of PVC Tube, 2 Pressure Tips	£2.00
AX-ADPS-SPT1	Single Static Pressure Tip	£0.45
AX-PVCT-Cx	PVC Tubing 8mm OD, 5mm ID. x = length. Price Per Meter	£1.00
AX-PVCT-Bx	PVC Tubing as above, Blue Colour. x = length. Price Per Meter	£1.00
AX-PVCT-Rx	PVC Tubing as above, Red Colour. x = length. Price Per Meter	£1.00
AX-PVCT-C30R	30 Meter Reel Clear PVC Tubing. Ships on the Spool	£19.00
AX-ADPS-BRKT-L	Mounting Bracket for the AX-ADPS range	£2.95

FEATURES

- Suitable for all Differential Pressure Devices
- Industry Standard tube dimensions
- Colour options for differentiating between units

Part Number Examples: For 25 metres of clear tube, use the order code

AX-PVCT-C25

Note: Tubing is provided in lengths of up to 30m, lengths ordered in excess of this will be cut at 30m intervals. For up to 100m lengths please call the Sales Office for a quotation.

AX-RDPM

ROOM DIFFERENTIAL PRESSURE MONITORS / TRANSMITTERS



A range of Room Differential Pressure Monitors designed to control pressure in a variety of applications, such as clean rooms and ICUs.

Several bi-directional pressure ranges and selectable output signal types for the most flexible application are available. Using precision high sensitivity silicon sensing capabilities and the latest ASIC technology the AX-RDPM substantially reduces off-set errors due to changes in temperature, stability to warm up, long term instability and position sensitivity.

Can be used for static pressure monitoring applications by simply allowing one of the ports to remain open to normal atmospheric pressure.

Order Codes		List Price
AX-RDPM1	Multi-Range: ±1 "WC, ±0.5 "WC, ±250 Pa, ±125 Pa	£395.00
AX-RDPM2	Multi-Range: ±0.25 "WC, ±0.125 "WC, ±60 Pa, ±30 Pa	£395.00
-B	BACnet Communications	+ £78
-A	Alarm, silencer, buzzer out, relay out & Setpoint	+ £10
-LCD	LCD display	+ £10
-SP	Stainless pick up port	+ £27
-OP	Outside pick up port	+ £27

FFATURES

- 1/8" BSP female connections
- On-board zero function
- Alarm Output with adjustable trip points
- LCD Indication Option
- Selectable ranges
- BACnet Version Available
- Perfect for Clean Rooms and Fire Prevention

SPECIFICATION		
Power Supply:	15 to 27Vac or 20 to 35Vdc	
Thermal Effects: < ±3.5% over compensated range		
Accuracy: ±1 % F.O. (±2% for 30 Pa ranges)		
Output: 0-5, 0-10Vdc or 4-20mA		
Response Time: 0.5 secs		
Zero Adjustment:	Push button auto-zero	
Relay Output: N.O. Contact 2.5A @ 120Vac or 30Va		
Relay Trip Point: Adjustable from zero to span		
Relay Delay: 5 seconds on / 5 seconds off		

AX-LSPTD-x

LIQUID STATIC PRESSURE TRANSMITTERS

A range of high-quality Pressure Transmitters designed for the HVAC industry. Units are available with either a 0-10Vdc or 4-20mA output. Both 0-10Vdc and 4-20mA variants are available and the units are pre-fitted with a flying lead. A Din Plug variant is available.



Order Codes	Current Output 4-20mA - 2 wire	List Price
AX-LSPTD-I-500m	Range 0 to 500mbar	£95.00
AX-LSPTD-I-1	Range 0 to 1 bar	£95.00
AX-LSPTD-I-1.5	Range 0 to 1.5 bar	£95.00
AX-LSPTD-I-2	Range 0 to 2 bar	£95.00
AX-LSPTD-I-2.5	Range 0 to 2.5 bar	£95.00
AX-LSPTD-I-4	Range 0 to 4 bar	£95.00
AX-LSPTD-I-6	Range 0 to 6 bar	£95.00
AX-LSPTD-I-10	Range 0 to 10 bar	£95.00
AX-LSPTD-I-16	Range 0 to 16 bar	£95.00
AX-LSPTD-I-25	Range 0 to 25 bar	£95.00
AX-LSPTD-I-40	Range 0 to 40 bar	£95.00
Order Codes	Voltage Output 0-10Vdc - 3 wire	List Price
Order Codes AX-LSPTD-V-500m	Voltage Output 0-10Vdc - 3 wire Range 0 to 500mbar	List Price £95.00
	•	
AX-LSPTD-V-500m	Range 0 to 500mbar	£95.00
AX-LSPTD-V-500m AX-LSPTD-V-1	Range 0 to 500mbar Range 0 to 1 bar	£95.00 £95.00
AX-LSPTD-V-500m AX-LSPTD-V-1 AX-LSPTD-V-1.5	Range 0 to 500mbar Range 0 to 1 bar Range 0 to 1.5 bar	£95.00 £95.00 £95.00
AX-LSPTD-V-500m AX-LSPTD-V-1 AX-LSPTD-V-1.5 AX-LSPTD-V-2	Range 0 to 500mbar Range 0 to 1 bar Range 0 to 1.5 bar Range 0 to 2 bar	£95.00 £95.00 £95.00
AX-LSPTD-V-500m AX-LSPTD-V-1 AX-LSPTD-V-1.5 AX-LSPTD-V-2 AX-LSPTD-V-2.5	Range 0 to 500mbar Range 0 to 1 bar Range 0 to 1.5 bar Range 0 to 2 bar Range 0 to 2.5 bar	£95.00 £95.00 £95.00 £95.00
AX-LSPTD-V-500m AX-LSPTD-V-1 AX-LSPTD-V-1.5 AX-LSPTD-V-2 AX-LSPTD-V-2.5 AX-LSPTD-V-4	Range 0 to 500mbar Range 0 to 1 bar Range 0 to 1.5 bar Range 0 to 2 bar Range 0 to 2.5 bar Range 0 to 4 bar	£95.00 £95.00 £95.00 £95.00 £95.00
AX-LSPTD-V-500m AX-LSPTD-V-1 AX-LSPTD-V-1.5 AX-LSPTD-V-2 AX-LSPTD-V-2.5 AX-LSPTD-V-4 AX-LSPTD-V-6	Range 0 to 500mbar Range 0 to 1 bar Range 0 to 1.5 bar Range 0 to 2 bar Range 0 to 2.5 bar Range 0 to 4 bar Range 0 to 6 bar	£95.00 £95.00 £95.00 £95.00 £95.00 £95.00
AX-LSPTD-V-500m AX-LSPTD-V-1 AX-LSPTD-V-1.5 AX-LSPTD-V-2 AX-LSPTD-V-2.5 AX-LSPTD-V-4 AX-LSPTD-V-6 AX-LSPTD-V-10	Range 0 to 500mbar Range 0 to 1 bar Range 0 to 1.5 bar Range 0 to 2 bar Range 0 to 2.5 bar Range 0 to 4 bar Range 0 to 6 bar Range 0 to 10 bar	£95.00 £95.00 £95.00 £95.00 £95.00 £95.00 £95.00 £95.00

- Robust stainless steel construction
- Male 1/4" BSP connection
- Flying lead connectionDIN Plug variant available
- DIN Plug varWide range
- Suitable for air, gas & liquids

SPECIFICATION			
Power Supply:		14-30Vdc	
Pressure Range:		1 bar to 600 bar	
Output:	-I	4-20mA	
	-V	0-10Vdc	
Operating Temperature:	Ambient	0 to +80°C	
	Fluid	0 to +100°C	



AX-LSPS-1381-x

These Pressure Switches have an adjustable switching threshold and either a fixed or adjustable differential. Normally used to switch an alarm or warning light, cutting off the supply to a pump.

- Cost effective solutionSuitable for use with main voltage
- Fixed or adjustable differential (hysteresis)





Order Codes		List Price
AX-LSPS1381-1	Fixed reset differential 0.1 to 1 bar	£77.00
AX-LSPS1381-4	Fixed reset differential 0.2 to 4 bar	£77.00
AX-LSPS1381-11	Fixed reset differential 0.5 to 11 bar	£77.00
AX-LSPS1381-28	Fixed reset differential 2 to 28 bar	£77.00
AX-LSPS1381-40	Fixed rest differential 2 to 40 bar	£77.00
AX-LSPS1381-1V	Adjustable differential 0.1 to 1 bar	£117.00
AX-LSPS1381-4V	Adjustable differential 0.2 to 4 bar	£117.00
AX-LSPS1381-11V	Adjustable differential 0.5 to 11 bar	£117.00
AX-LSPS1381-28V	Adjustable differential 2 to 28 bar	£117.00
AX-LSPS1381-40V	Adjustable differential 2 to 40 bar	£117.00

SPECIFICATION				
Range:	AX-LSPS1381-1	0.1 to 1 bar		
	AX-LSPS1381-4	0.2 to 4 bar		
	AX-LSPS1381-11	0.5 to 11 bar		
	AX-LSPS1381-28	2 to 28 bar		
	AX-LSPS1381-40	2 to 40 bar		
Fixed Differential:	AX-LSPS1381-1	0.04 bar		
	AX-LSPS1381-4	0.07 bar		
	AX-LSPS1381-11	0.3 bar		
	AX-LSPS1381-28	0.6 bar		
	AX-LSPS1381-40	0.8 bar		
Materials:	Pressure Chamber	Brass		
	Diaphragm	Beryllium copper		
	Sealing Gasket	< 11 Bar PTFE > 11 Bar Nitrile rubber		
	Housing	Aluminium/Diecast Zinc		
	Lid	Glass filled nylon		
	Mounting Bracket	Zinc plated steel bracket		
Pressure Connection:	1/2" BSP Male			
Contact Rating:	10A @ 250Vac Inductive			
Protection:	IP65			
Fluid Temperature:	-10 to +85°C			
Dimensions:	92 x 105 x 77mm			
Weight:	760g			
Adjustable Differential: -V	Adjustable 5 to 95% of range			

AX-LSPS-PS1



Cost effective Static Pressure devices capable of direct switching of 240V loads. Normal applications are monitoring of pumps, chillers, valves etc.

- Cost effective solution Adjustable pressure range High rated SPDT contacts
- Auto reset
- Suitable for use with mains voltage
- Adjustable differential

			1000	
Order Codes		1+	20+	
AX-LSPS-PS1-1	Liquid Pressure Switch -0.75 to 3 bar	£24.50	£21.50	
AX-LSPS-PS1-3	Liquid Pressure Switch -0.5 to 7 bar	£24.50	£21.50	

S	SPECIFICATION				
	Range	Differential			
AX-LSPS-PS1-1	-0.75 to 3 bar	0.25 to 1.5 bar			
AX-LSPS-PS1-3	-0.5 to 7 bar	0.5 to 5 bar			
Pressure Connection:	1/4" BSP Male				
Contact Rating: 24A @ 230Vac (res) (10A ind)		0A ind)			
Protection:	IP44				
Ambient Range:	-50 to +70°C				
Fluid Temperature:	-50 to +170°C				
Dimensions:	42 x 85 x 75mm				
Weight: 350g					

LIQUID DIFFERENTIAL PRESSURE

AX-LDPS1382 / 1482

High quality Differential Pressure devices capable of direct switching of 240Vac loads. Cost effective solution for filter dirty, flow proving and flow failure detection.

- Robust stainless steel construction
- Female BSP connection
- Suitable for water, oil, steam or air Complete with DIN plug connector





Cert No. 085

Order Codes		List Price
AX-LDPS1382-1	Range 0.07 to 1 bar	£121.00
AX-LDPS1382-4	Range 0.2 to 4 bar	£121.00
AX-LDPS1382-11	Range 0.5 to 11 bar	£121.00
AX-LDPS1382-28	Range 2 to 28 bar	£121.00
AX-LDPS1482-125	Range 5 to 125 mbar	£121.00
AX-LDPS1482-250	Range 15 to 250 mbar	£121.00
AX-LDPS1482-400	Range 25 to 400 mbar	£121.00

SPECIFICATION			
	Pressure Range	Hysteresis	
AX-LDPS1382-1	0.07 to 1 bar	0.04 bar	
AX-LDPS1382-4	0.2 to 4 bar	0.07 bar	
AX-LDPS1382-11	0.5 to 11 bar	0.3 bar	
AX-LDPS1382-28	2.0 to 28 bar	0.6 bar	
AX-LDPS1482-125	5 to 125 mbar	2.5 mbar	
AX-LDPS1482-250	15 to 250 mbar	4 mbar	
AX-LDPS1482-400	25 to 400 mbar	10 mbar	
Max. Line Pressure:	>250 mbar	34 bar max	
	<125 mbar	14 bar max	
Out of Balance Pressure:	4 x pressure range		
Pressure Connections:	1/8" BSP female Brass		
Switch Rating:	10A @ 250Vac inductive 1A @ 30Vdc inductive		
Media Temperature:	-10 to +85°C		
Protection:	IP65		

AX-LDPS-FD113

A Differential Pressure Switch capable of direct switching of 240V loads. Cost effective solution for both flow proving and flow failure detection. The unit has an adjustable Setpoint and differential and has a scale to show the Setpoint.

- Cost effective solution
- Suitable for use with mains voltage
- Adjustable Setpoint and differential



			BREA
Order Codes		1+	20+
AX-LDPS-FD113	Range 0.3 to 4.5 bar	£44.00	£39.00

SPECIFICATION		
Contact Rating:	3A @ 250Vac (res)	
Contact Type:	SPDT	
Pressure Connection:	1/4" BSP female	
Range:	0.3 to 4.5 bar	
Differential:	0.2 bar	
Max Operating Pressure	12 bar	
Protection:	IP30	
Operating Temperature:	-10 to +70°C	

AX-LDPT482-x

A range of highly accurate Differential Pressure Transmitters available with either a 0-10Vdc or 4-20mA output. Rugged construction for demanding applications.

	_			
	7 A V	t ell li	lin1	

- 1/8" BSP female connections
- Complete with 1m of cable



Order Codes	Voltage Output	List Price
AX-LDPT482V-160	Range 0 to 160 mbar	£185.00
AX-LDPT482V-400	Range 0 to 400 mbar	£185.00
AX-LDPT482V-1	Range 0 to 1 bar	£185.00
AX-LDPT482V-2	Range 0 to 2 bar	£185.00
AX-LDPT482V-4	Range 0 to 4 bar	£185.00
AX-LDPT482V-7	Range 0 to 7 bar	£185.00
AX-LDPT482V-10	Range 0 to 10 bar	£185.00
AX-LDPT482V-16	Range 0 to 16 bar	£185.00

Order Codes	Current Output	List Price
AX-LDPT482I-160	Range 0 to 160 mbar	£185.00
AX-LDPT482I-400	Range 0 to 400 mbar	£185.00
AX-LDPT482I-1	Range 0 to 1 bar	£185.00
AX-LDPT482I-2	Range 0 to 2 bar	£185.00
AX-LDPT482I-4	Range 0 to 4 bar	£185.00
AX-LDPT482I-7	Range 0 to 7 bar	£185.00
AX-LDPT482I-10	Range 0 to 10 bar	£185.00
AX-LDPT482I-16	Range 0 to 16 bar	£185.00

SPECIFICATION				
Power Supply:	Current Output	12-24Vdc		
	Voltage Output	24Vac/dc ±15%		
Output:	4-20mA - 2 wire. 0-10Vdc - 3 wire			
Protection:	IP65			
Operating Temperature:				

All made in the UK, or by class-leading manufacturers, Annicom is proud to provide a wide range of Transformers, Power Supplies, Current Transformers, Switches and Sensors in addition to metering for power, water, gas and oil.

This year we proudly introduce our very compact 60VA transformers, DIN Rail mounted with a very low profile. As well as host of new metering devices, including BACnet and Modbus enabled KWH meters.

- 49 Transformers & Power Supplies
- 50 Current Switches & Transducers
- KWH Meters Pulse, Modbus & BACnet
- **52** Current Transformers Solid Core
- 53 Current Transformers Split Core
- **54** Water Meters
- 55 Heat Meter Integrators & Ultrasonic Meters
- 56 Gas, Oil & Combined Water Meters

DID YOU KNOW?

Annicom's kWh meters include Bacnet and Modbus output options, with a huge range of Current Transformers

POWER SUPPLIES, MONITORING & METERING

TRANSFORMERS & POWER SUPPLIES

AX-TX-Dx



Encapsulated and DIN rail mounted 230Vac to 24Vac Transformers suitable for a wide range of applications. The input and output are both fused.

- Terminal connectors
- Rating from 6VA to 60VA
- DIN rail mounted encapsulated transformer

Order Codes		List Price
AX-TX-D6	DIN Rail Transformer 6VA	£20.00
AX-TX-D25	DIN Rail Transformer 25VA	£28.00
AX-TX-D30	DIN Rail Transformer 30VA	£31.00
AX-TX-D60	DIN Rail Transformer 60VA	£75.00

SPECIFICATION				
Input:	220/240Vac ±5%			
Output:	24Vac ±10%			
Electrical Connections:	Terminals for 0.5mm² to 2.5mm² cable			
Ambient Range:	-10 to +50°C, 0-95% RH			
Compliance:	EN 60742 / VDE 0551			

AX-TX-x



A range of Panel Mounted Control Transformers suitable for a wide range of applications.

- Spade earth connector
- Welded earth terminal
- Rating from 100VA to 500VA

Order Codes		List Price
AX-TX-100	230Vac to 24Vac Transformer 100VA	£36.00
AX-TX-150	230Vac to 24Vac Transformer 150VA	£45.00
AX-TX-200	230Vac to 24Vac Transformer 200VA	£55.00
AX-TX-250	230Vac to 24Vac Transformer 250VA	£49.50
AX-TX-300	230Vac to 24Vac Transformer 300VA	£60.00
AX-TX-500	230Vac to 24Vac Transformer 500VA	£71.00

SPECIFICATION				
Input:	220/240Vac ±5%			
Output:	24Vac ±10%			
Electrical Connections:	Terminals for 0.5 to 2.5mm² cable			
Ambient Range:	-10 to +50°C, 0-95% RH			
Compliance:	EN 60742 / VDE 0551			
Isolated to:	T40/B			
Country of Origin:	United Kingdom			

AX-PS-24-24 /230-24



DIN rail mounted 230Vac/24Vac to 24Vdc Power Supplies suitable for a wide range of applications. Variants are available with different secondary side grounding

- Regulated 24Vdc output at 1A
- Integrated short-circuit protection LED Status indication

Order Codes		List Price
AX-PS-24-24-1C	24Vac to 24Vdc 1A Power Supply, common 0V	£20.00
AX-PS-24-24-1F	24Vac to 24Vdc 1A Power Supply, floating 0V	£20.00
AX-PS-230-24	230Vac to 24Vdc Power Supply - DIN	£36.00
AX-PS-230-24E	230Vac to 24Vdc Power Supply - Metal Enclosure	£56.00

SPECIFICATION				
Input:	24Vac ±15% / 230Vac ±10%			
Input Fuse:	630mA @ 250Vac			
Output:	24Vdc ±10%			
Output Fuse:	1A			
Ambient Range:	0 to 50°C			

AX-PS-DR-x



Switch mode power supply for cost effective regulated power to panels and other applications where devices need either 24Vdc or 12Vdc power supplies.

The unit accepts 86Vac to 264Vac and outputs either 24Vdc or 12Vdc at 2 Amps to 4.7 Amps depending on the unit selected.

Features include short circuit overload, over voltage and over temperature protection, with LED power indication.

- 4	
	PRICE
U	DROP
٠.	

Order Codes		List Price
AX-PS-DR-45-12	Universal Input to 12Vdc psu 3.5A	£31.00
AX-PS-DR-45-24	Universal input to 24Vdc psu 2A	£31.00
AX-PS-DR-60-12	Universal input to 12Vdc psu 4.7A	£33.00
AX-PS-DR-60-24	Universal input to 24Vdc psu 2.6A	£33.00

- Regulated 12/24Vdc output at 2A to 4.7A Short circuit, overload, over-voltage and over
- temperature protection
- LED power indication

/oltage:	85 to 264Vac or 120 to
requency Range:	47 to 63Hz

Input Voltage:	85 to 264Vac or 120 to 370Vdc
Input Frequency Range:	47 to 63Hz
Input Current:	1.5A @ 115Vac or 0.75A @ 230Vac
Input Inrush Current Max:	30A @ 115Vac or 60A @ 230Vac
Output Voltage:	12 or 24Vdc
Output Voltage Range:	10.8 to 13.2Vdc 21.6 to 26.4Vdc
Output Current:	12Vdc = 0 to 3.5A 24Vdc = 0 to 2A
Output Power:	12Vdc = 42W 24Vdc = 48W
Terminals:	Rising clamp for 0.5-2.5mm² cable
LED Indication:	On when power on
Ambient Range:	-10 to +50°C @ 20 to 90% RH
Safety Standards:	UL508, TUV EN60950-1 Approved
EMC Conduction & Radiation:	EN55011, EN55022, EN61000-3-2, -3
Dimensions / Weight:	93mm(L)x 78mm(W)x 67mm(H) 310g



CURRENT SWITCHES & TRANSDUCERS

AX-CSG-x



A wide-range of high-quality UL approved Current Switches normally used for status monitoring of plant and equipment. A solid state switch operates when the current level exceeds the threshold value.

Various Setpoint and output versions make the CSG range of current switches flexible and very competitive.

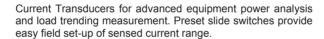
- Solid or split core versions
- Suitable to monitor supplies up to 200A
- Fixed or adjustable Setpoint versions



Order Codes	Solid Core	List Price
AX-CSG-GNG-100	Mini, Fixed Setpoint, Mosfet Output	£15.00
AX-CSG-GNG-200	Standard, Fixed Setpoint, Mosfet Output	£19.00
AX-CSG-610-75	Mini, Adjustable Setpoint, Mosfet Output	£27.00
AX-CSG-610-200	Standard, Adjustable Setpoint, Mosfet Output	£34.00
AX-CS-325-NS	Standard, Adj. Setpoint, Triac Output, No Snubber	£67.85
AX-CS-325	Standard, Adjustable Setpoint, Triac Output	£70.00

	Split Core	
AX-SCG-GNG-200	Standard, Fixed Setpoint, Mosfet Output	£45.00
AX-SCG-610-200	Standard, Adjustable Setpoint, Mosfet Output	£62.00

S	PECIF	ΙC	ATION	
	Switch Volt	age	Current Range	Setpoint
AX-CSG-GNG-100	30Vac/dc		0.5 to 100A	0.5A
AX-CSG-610-75	30Vac/dc		0.75 to 75A	0.75 to 75A
AX-CSG-GNG-200	30Vac/dc		0.5 to 200A	0.75A
AX-CSG-610-200	30Vac/dc		1 to 200A	1 to 200A
AX-CS-325-NS	250Vac		1 to 200A	1 to 200A
AX-SCG-525	250Vac		1.6 to 200A	1.6 to 200A
Input Frequency:	10-400Hz			
Hysteresis:	<2% FS			
Input Frequency:	10-400Hz	10-400Hz		
Output:	GNG/610	Mos	fet	
	325-NS	Tria	С	
Mounting:	Mini	Μοι	inting holes 41.7	7mm x 5mm
	Standard	DIN	rail	
Conductor Hole:	Mini	11.4	lmm dia	
	Solid Core	20m	ım dia	
	Split Core	19 x	24mm	



The 675 version features 20 to 400Mhz output range specifically for controlling Variable Frequency (Inverter) Drives and the new R1 and R2 variants maximise flexibility by offering several ranges on one unit.



- Solid or split core versions
- Suitable to monitor supplies up to 200A
- Output types 0-10Vdc, or 4-20mA

PRICE DROP

R1 / 2 multi-range versions 675 Version Suitable for controlling VFDs





Order Codes	Solid Core	List Price
AX-CSG-651-R1	0-10Vdc Out - 10A/20A/50A Range	£24.00
AX-CSG-651-R2	0-10Vdc Out - 50A/100A/150A Range	£26.00
AX-CSG-651-200	0-10Vdc Out - 200A Range	£26.00
AX-CSG-652-R1	4-20mA Out - 10A/20A/50A Range	£26.00
AX-CSG-652-R2	4-20mA Out - 50A/100A/150A Range	£28.00
AX-CSG-652-200	4-20mA Out - 200A Range	£28.00
AX-CSG-675-2	4-20mA Out - 20 to 400Hz for VFDs - 2A	£57.00
AX-CSG-675-5	4-20mA Out - 20 to 400Hz for VFDs - 5A	£57.00
AX-CSG-675-R1	4-20mA Out - 20 to 400Hz for VFDs - 10A/20A/50A	£57.00
AX-CSG-675-R2	4-20mA Out - 20 to 400Hz for VFDs - 50A/100A/200A	£57.00
AX-CSG-675-200	4-20mA Out - 20 to 400Hz for VFDs - 200A Range	£57.00

AX-CSG-675-200	4-20mA Out - 20 to 400Hz for VFDs - 200A Range	£57.00
Order Codes	Split Core	List Price
AX-SCG-651-R1	0-10Vdc Out - 10A/20A/50A Range	£56.00
AX-SCG-651-R2	0-10Vdc Out - 50A/100A/150A Range	£56.00
AX-SCG-651-200	0-10Vdc Out - 200A Range	£56.00
AX-SCG-652-R1	4-20mA Out - 10A/20A/50A Range	£57.00
AX-SCG-652-R2	4-20mA Out - 50A/100A/150A Range	£57.00
AX-SCG-652-200	4-20mA Out - 200A Range	£57.00
AX-SCG-675-2	4-20mA Out - 20 to 400Hz for VFDs - 2A	£79.00
AX-SCG-675-5	4-20mA Out - 20 to 400Hz for VFDs - 5A	£79.00
AX-SCG-675-R1	4-20mA Out - 20 to 400Hz for VFDs - 10A/20A/50A	£79.00
AX-SCG-675-R2	4-20mA Out - 20 to 400Hz for VFDs - 50A/100A/200A	£79.00
AX-SCG-675-200	4-20mA Out - 20 to 400Hz for VFDs - 200A	£79.00

	SPE	CIF	FICATI	O N
Power Supply:	0-5/10\	/dc	Self-power	ed induction
	4-20m/	4	15 to 42Vd	
Frequency:	650 ran	nge	40-100Hz	
	675 ran	nge	20-400Hz	
Accuracy:	±1% Fu	ıll Sca	ale	
Output Types:	0-10Vdc, or 4-20mA			
Mounting:	Mini		Mount Holes 41.7mm x 5mm	
	Standard		DIN rail	
Frequency:	Mini		11.4mm dia	
	Solid C	ore	20mm dia	
	Split Co	ore	19 x 24mm	
Input Ranges:	-2	0-2	A	Mini (675 only)
	-5	0-5	A	Mini (675 only)
	R1	10/2	20/50A	Mini
	R2	50/	100/150A	Full
	-200	0-2	00A	Full

POWER SUPPLIES, MONITORING & METERING

KWH METERS - PULSE, MODBUS & BACNET

AX-KWH-RI3

KWH METER - DIN RAII MOUNT PHISE & MODBUS OUTPHIS

The AX-KWH-Ri3 kWh Meter is a compact DIN rail mounted design. Backlit LCD and user programmable CT ratios, all accessible via an intuitive user interface.

The unit offers an extensive range of functions, with Modbus and Pulsed Outputs on board, three line display and the ability to meter both Single and Three phase supplies.

FFATURES

- Three line LCD display
- Single or Three phase
- Pulse and Modbus output to BMS
- CT operated
- DIN rail mounting

SPECIFICATION				
Power Supply:	100 to 289Vac L-N			
	175 to 500Vac L-L			
Frequency Range:	45 to 66Hz			
Input Current:	5Amps			
Max Current:	6Amps			
LCD Display:	3 line LCD			
CT Range:	1 to 9999A			
Pulse Output:	1 per 0.1kWh			
Pulse Rating:	Solid state relay 50mA @ 250Vac			
RS485 Output:	Modbus 2 - wire half duplex or Johnson Controls Metasys - selectable			
Baud Rate:	2400, 4800, 9600, 19200, 38400			
Dimensions:	72 x 90mm as per DIN 43880			
Protection:	IP52 (case IP30)			

Order Codes		List Price
AX-KWH-Ri3	Ri3 DIN rail kWh Meter - Pulse & Modbus o/p	£125.00

AX-KWH-Cx

KWH METER - PANEL MOUNT, PULSE & MODBUS OUTPUT OPTIONS



Note: 2 pulse output variants available at extra cost (PUL-02) Or 1 x pulse & 1 x 485 at extra cost (PUL-485) The AX-KWH-Cx range of kWh Meters is a compact panel mounted design. Backlit LCD and user programmable CT ratios, all accessible via an intuitive user interface. The units give a pulse output to the BMS (modbus options).

Order Codes		List Price
AX-KWH-Ci1-P	Ci1 Panel kWh Meter - Pulse o/p	£92.00
AX-KWH-Ci1-MOD	Ci1 Panel kWh Meter - 485 o/p	£102.00
AX-KWH-Ci3-P	Ci3 Panel kWh Meter - Pulse o/p	£112.00

Ci3 Panel kWh Meter - 485 o/p

AX-KWH-Ci3-MOD

FFATURES

Single & three line display variants

Ambient Temp. Range: -10 to +45°C, 0-95% RH

- Single or 3 phase
- Pulse output to BMS (modbus option)
- CT operated
- Panel mounting

Power Supply:	100 to 289Vac L-N
	175 to 500Vac L-L
Frequency Range:	45 to 66Hz
Input Current:	5Amps
Max Current:	6Amps
LCD Display:	Ci1 - 1 line LCD
	Ci3 - 3 line LCD
CT Range:	1 to 9999A
Pulse Output: -P	1 per 0.1kWh
Pulse Rating:	Solid state relay 50mA @ 250Vac (2 max)
RS485 Output: -MOD	Modbus 2 - wire half duplex or Johnson Controls Metasys - selectable
Baud Rate:	2400, 4800, 9600, 19200, 38400
Dimensions:	96 x 96 x 64.1mm
Protection:	IP52 (case IP30)
Ambient Temp Range:	-10 to +45°C, 0-95% RH

AX-KWH-1630-x

KWH METER - PANEL MOUNT. BACnet. PULSE & MODBUS OUTPUT OPTIONS

£120.00



A multi-function digital metering system providing a high accuracy display and communication of all major electrical and power quality parameters. The unit is a DIN 96 panel mounted enclosure and offers simple programming and display of up to 35 electrical measurement parameters via a simple menu driven user interface on the front panel.

BACnet, Mobuds and Multiple pulse options are available.

Order Codes		List Price
AX-KWH-1630-P	KWH Panel Meter - 1 Pulse Output	£195.00
AX-KWH-1630-2P	KWH Panel Meter - 2 Pulse Output	£205.00
AX-KWH-1630-485	KWH Panel Meter - Modbus RS485	£215.00
AX-KWH-1630-Bac	KWH Panel Meter - Bacnet/IP	£410.00
AX-KWH-1630-P-485	KWH Panel Meter - 1 Pulse & Modbus RS485	£220.00

FEATURES

- 35 electrical measurement parameters
- Pulse output to BMS
- Simple menu driven
- Optional communication outputs
- DIN 96 mounting

SPECIFICATION					
Input Voltag	ge: (nominal)	57.7 to 277V L-N			
		100 to 480V L-L			
Frequency	Range:	45 to 66Hz			
AC Supply I	Burden:	6VA			
Measureme	ent Accuracy:	0.2%			
Nominal Input Current:		5A			
Output:	Standard	Pulse (solid state relays)			
	Optional	Modbus-RS 485			
		Bacnet IP			
Pulse Durat	ion:	60, 100 or 200 milliseconds			
Contact Rating:		50mA max @ 250Vac max			
No. Of Pulse o/p:		1 as standard (2 optional extra)			
Ambient Ra	nge:	10 to 50°C			

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99



CURRENT TRANSFORMERS - SOLID CORE



Designed to meet EN 60044 and accuracy up to class 0.5, the AX-CT-EM range of Solid Core Current Transformers are designed to suit any application.

Combined with our our range of AX-KWH Kilowatt Hour Meters, these current transformers offer a high-quality, cost effective method of monitoring energy usage.

The units are designed to slide or screw onto buzz-bars, featuring a proprietary aperture design to facilitate easy installation.

Should you need advice when selecting the correct Current Transformer, our Sales Team will be happy to help.

Please Note: A huge range of aperture sizes and case sizes are available, and not all variants are listed. Please consult the Datasheet or contact the Sales Office for more information.

- Designed to meet EN60044 Accuracy Class up to 0.5
- 5A secondary
- Suitable to monitor loads up to 4000A
- Wide range of aperture sizes

SPECIFICATION				
Overload:	1.2 x Rated current (continuous)			
Protection Enclosure:	IP40			
Frequency:	50/60Hz			
Max Operating Voltage:	660Vac			
Secondary Current:	5A (1A option)			
Ambient Range:	-20 to +85°C, 0-95% RH			
Compliance: BS7626: 1993				
IEC185: 1990				
	BS2757 class Y (insulation)			

Order Codes	List Price	Amp	erages	Ca	se Size (mm)	Aperture		
Order Codes	LIST PITCE	Primary	Secondary	Width	Depth	Height	Dimensions	Diameter	
1A to 40A Primary - 5A Secondary									
AX-CT-EMA5Y-1/5	£21.50	1A	5A	77	50	116	M8 STUD		
AX-CT-EMA5Y-5/5	£21.50	5A	5A	77	50	116	M8 STUD		
AX-CT-EMA5Y-10/5	£21.50	10A	5A	77	50	116	M8 STUD		
AX-CT-EMA5Y-15/5	£21.50	15A	5A	77	50	116	M8 STUD		
AX-CT-EMA5Y-20/5	£21.50	20A	5A	77	50	116	M8 STUD		
AX-CT-EMA5Y-30/5	£21.50	30A	5A	77	50	116	M8 STUD		
AX-CT-EMA5Y-40/5	£21.50	40A	5A	77	50	116	M8 STUD		
			50A to 300A I	Primary	- 5A Sec	ondary			
AX-CT-EM53Q-50/5	£10.00	50A	5A	45	30	65	20mm x 6mm	21mm	
AX-CT-EM53Q-60/5	£10.00	60A	5A	45	30	65	20mm x 6mm	21mm	
AX-CT-EM53Q-75/5	£10.00	75A	5A	45	30	65	20mm x 6mm	21mm	
AX-CT-EM53Q-80/5	£10.00	80A	5A	45	30	65	20mm x 6mm	21mm	
AX-CT-EM53Q-100/5	£10.00	100A	5A	45	30	65	20mm x 6mm	21mm	
AX-CT-EM53Q-125/5	£10.00	125A	5A	45	30	65	20mm x 6mm 2		
AX-CT-EM53Q-150/5	£10.00	150A	5A	45	30	65	20mm x 6mm 21		
AX-CT-EM53Q-160/5	£10.00	160A	5A	45	30	65	20mm x 6mm 21n		
AX-CT-EM53Q-200/5	£10.00	200A	5A	45	30	65	20mm x 6mm	21mm	
AX-CT-EM53Q-250/5	£10.00	250A	5A	45	30	65	20mm x 6mm	21mm	
AX-CT-EM53Q-300/5	£10.00	300A	5A	45	30	65	20mm x 6mm	21mm	
		4	100A to 1600A	Primar	y - 5A Se	condary			
AX-CT-EM93L-400/5	£15.25	400A	5A	90	30	31	50mm x 10mm, 40mm x 32mm	32mm	
AX-CT-EM93L-500/5	£15.25	500A	5A	90	30	31	50mm x 10mm, 40mm x 32mm	32mm	
AX-CT-EM93L-600/5	£15.25	600A	5A	90	30	31	50mm x 10mm, 40mm x 32mm	32mm	
AX-CT-EM93L-750/5	£15.25	750A	5A	90	30	31	50mm x 10mm, 40mm x 32mm	32mm	
AX-CT-EM93L-800/5	£15.25	800A	5A	90	30	31	50mm x 10mm, 40mm x 32mm	32mm	
AX-CT-EM93L-1000/5	£15.25	1000A	5A	90	30	31	50mm x 10mm, 40mm x 32mm	32mm	
AX-CT-EM93L-1250/5	£15.25	1250A	5A	90	30	31	50mm x 10mm, 40mm x 32mm	32mm	
AX-CT-EM93L-1500/5	£15.25	1500A	5A	90	30	31	50mm x 10mm, 40mm x 32mm	32mm	
AX-CT-EM93L-1600/5	£15.25	1600A	5A	90	30	31	50mm x 10mm, 40mm x 32mm 32mm		
		2	000A to 4000A	A Primar	y - 5A S	econdary			
AX-CT-EMB5Z-2000/5	£23.00	2000A	5A	134	50	156	104mm x 35mm	35mm	
AX-CT-EMB5Z-2500/5	£23.00	2500A	5A	134	50	156	104mm x 35mm	35mm	
AX-CT-EMB5Z-3000/5	£23.00	3000A	5A	134	50	156	104mm x 35mm	35mm	
AX-CT-EMB5Z-4000/5	£23.00	4000A	5A	134	50	156	104mm x 35mm	35mm	

POWER SUPPLIES, MONITORING & METERING

CURRENT TRANSFORMERS - SPLIT CORE

AX-CT-SC-x



Designed to offer accuracy up to class 0.5, the AX-CT-EM range of Solid Core Current Transformers suit any application with a range of up to 6000 Amps.

The split-core design is for retrofitting purposes. They can be clipped onto buzz-bars and cables without any need for removal or decommissioning. The new 'mini' versions provide a smaller case and aperture where space is at a premium.

Perfect for use with our range of AX-KWH Kilowatt hour meters these Split-Core Current Transformers are exceptionally cost effective with a high level of quality.

Applications include: Switchgear, Distribution systems, Generator Sets, Control

Please Note: A huge range of aperture sizes and case sizes are available, and not all variants are listed. Please consult the Datasheet or contact the Sales Office for more information.

- 5A secondary
- Suitable to monitor loads up to 6000A High quality comprensive measurements
- Available in a wide range oftransformer ratings
- Accuracy up to Class 0.5 Foot or Busbar mounted
- Cost effective
- Long product life

SPECIFICATION				
Overload:	1.2 x rated current (continuous)			
Protection Enclosure:	IP40			
Frequency:	50/60Hz			
Max. Operating Voltage:	660Vac			
Ambient Range:	-20 to +70°C, 0-95% RH			
Compliance:	BS7626: 1993			
	IEC185: 1990			
	BS2757 class Y (insulation)			

Mini Split Core							
Order Codes	List	Amp	erages	Case Size (mm)			Aperture
Order Codes	Price	Primary	Secondary	Width	Depth	Height	Dimensions
AX-CT-MSC2-100/5	£33.00	100A	5A	44.5	61.5	72.7	18mm
AX-CT-MSC2-150/5	£33.00	150A	5A	44.4	61.5	72.7	18mm
AX-CT-MSC2-200/5	£33.00	200A	5A	44.5	61.5	72.7	18mm
AX-CT-MSC2-250/5	£33.00	250A	5A	44.5	61.5	72.7	18mm
AX-CT-MSC2-300/5	£35.00	300A	5A	44.5	62.2	71.7	28mm
AX-CT-MSC2-400/5	£35.00	400A	5A	44.5	62.2	71.7	28mm
AX-CT-MSC2-500/5	£35.00	500A	5A	44.5	62.2	71.7	28mm

Full Size Split Core							
Order Codes	List	List Amperages		Case Size (mm)			Aperture
Order Codes	Price	Primary	Secondary	Width	Depth	Height	Dimensions
AX-CT-SC1-100/5	£31.00	100A	5A	89	40	111	20mm x 30mm
AX-CT-SC1-150/5	£35.00	150A	5A	89	40	111	20mm x 30mm
AX-CT-SC1-200/5	£35.00	200A	5A	89	40	111	20mm x 30mm
AX-CT-SC1-250/5	£35.00	250A	5A	89	40	111	20mm x 30mm
AX-CT-SC1-300/5	£35.00	300A	5A	89	40	111	20mm x 30mm
AX-CT-SC1-400/5	£35.00	400A	5A	89	40	111	20mm x 30mm
AX-CT-SC2-500/5	£37.00	500A	5A	114	32	145	50mm x 80mm
AX-CT-SC2-600/5	£37.00	600A	5A	114	32	145	50mm x 80mm
AX-CT-SC2-750/5	£39.00	750A	5A	114	32	145	50mm x 80mm
AX-CT-SC2-800/5	£39.00	800A	5A	114	32	145	50mm x 80mm
AX-CT-SC4-1000/5	£53.00	1000A	5A	114	32	185	80mm x 120mm
AX-CT-SC4-1200/5	£53.00	1200A	5A	114	32	185	80mm x 120mm
AX-CT-SC4-1250/5	£53.00	1250A	5A	114	32	185	80mm x 120mm
AX-CT-SC4-1500/5	£53.00	1500A	5A	114	32	185	80mm x 120mm
AX-CT-SC5-2000/5	£122.00	2000A	5A	184	52	245	80mm x 160mm
AX-CT-SC5-2500/5	£125.00	2500A	5A	184	52	245	80mm x 160mm
AX-CT-SC5-3000/5	£145.00	3000A	5A	184	52	245	80mm x 160mm
AX-CT-SC5-4000/5	£155.00	4000A	5A	184	52	245	80mm x 160mm
AX-CT-SC5-5000/5	£167.00	5000A	5A	184	52	245	80mm x 160mm
AX-CT-SC5-6000/5	£177.00	5000A	5A	184	52	245	80mm x 160mm



WATER METERS

AX-WM-x

COLD WATER METERS - SCREWED & FLANGED - PULSE OUTPUT

A comprehensive range of cost effective Cold Water Meters for measuring energy consumption (for billing purposes) or to calculate flow to input to the BMS.

FEATURES

- Multijet screwed and turbine flanged meters
 Pulse output to BMS or an integrator
- Suitable for water up to 40°C (also drinking
- Several pulse/litre options available
 1 10 100 1000 etc.
- 1, 10, 100, 1000 etc.

 Suitable for sub-metering



Note: Please see
Datasheet for
recommended litre/pulse
A range of WRAS
approved water meters
are also available

Order Codes	Multijet Cold Water Screwed Meters	List Price
AX-WM-MJ-D15	1/2" Screwed Cold Water Meter c/w pulse o/p	£52.00
AX-WM-MJ-D20	3/4" Screwed Cold Water Meter c/w pulse o/p	£64.00
AX-WM-MJ-D25	1" Screwed Cold Water Meter c/w pulse o/p	£124.00
AX-WM-MJ-D30	1 1/4" Screwed Cold Water Meter c/w pulse o/p	£139.00
AX-WM-MJ-D40	1 x 1/2" Screwed Cold Water Meter c/w pulse o/p	£230.00
AX-WM-MJ-D50	2" Screwed Cold Water Meter c/w pulse o/p	£325.00

Order Codes	Turbine Cold Water Flanged Meters	List Price
AX-WM-WO-D50	2" Flanged Cold Water Meter c/w pulse o/p	£410.00
AX-WM-WO-D65	2 1/2" Flanged Cold Water Meter c/w pulse o/p	£455.00
AX-WM-WO-D80	3" Flanged Cold Water Meter c/w pulse o/p	£495.00
AX-WM-WO-D100	4" Flanged Cold Water Meter c/w pulse o/p	£565.00
AX-WM-WO-D125	5" Flanged Cold Water Meter c/w pulse o/p	£735.00
AX-WM-WO-D150	6" Flanged Cold Water Meter c/w pulse o/p	£960.00
AX-WM-WO-D200	8" Flanged Cold Water Meter c/w pulse o/p	£1120.00
AX-WM-WO-D250	10" Flanged Cold Water Meter c/w pulse o/p	£1725.00
AX-WM-WO-D300	12" Flanged Cold Water Meter c/w pulse o/p	£2895.00
AX-WM-WO-D400	16" Flanged Cold Water Meter c/w pulse o/p	£POA
AX-WM-WO-D500	20" Flanged Cold Water Meter c/w pulse o/p	£POA

METER SIZING

To size water meters correctly the following information is required:

- Pipe size
- Maximum flow rate (Qmax)
- Nominal flow rate (Qn)
- Maximum water temperature
- Water pressure (static and pump head)

^ Y_WM_~~~

HOT WATER METERS - SCREWED & FLANGED - PULSE OUTPUT



A comprehensive range of cost effective Hot Water Meters for measuring energy consumption (for billing purposes) or to calculate flow to input to the BMS.

FFATURES

- Multijet screwed and turbine flanged meters
- Pulse output to BMS or an integrator
- Suitable for water to 90°C
- Several pulse/litre options available per meter 1, 10, 100, 1000 etc. (See Datasheet for relevant options)
- Suitable for sub-metering

Note: Please see Datasheet for recommended litre/pulse

Order Codes	Multijet Hot Water Screwed Meters	List Price
AX-WM-MJH-D15	1/2" Screwed Hot Water Meter c/w pulse o/p	£52.00
AX-WM-MJH-D20	3/4" Screwed Hot Water Meter c/w pulse o/p	£64.00
AX-WM-MJH-D25	1" Screwed Hot Water Meter c/w pulse o/p	£143.00
AX-WM-MJH-D30	1 1/4" Screwed Hot Water Meter c/w pulse o/p	£153.00
AX-WM-MJH-D40	1 1/2" Screwed Hot Water Meter c/w pulse o/p	£259.00
AX-WM-MJH-D50	2" Screwed Hot Water Meter c/w pulse o/p	£365.00

Order Codes	Turbine Hot Water Flanged Meters	List Price
AX-WM-WOH-D50	2" Flanged Hot Water Meter c/w pulse o/p	£510.00
AX-WM-WOH-D65	2 1/2" Flanged Hot Water Meter c/w pulse o/p	£535.00
AX-WM-WOH-D80	3" Flanged Hot Water Meter c/w pulse o/p	£565.00
AX-WM-WOH-D100	4" Flanged Hot Water Meter c/w pulse o/p	£630.00
AX-WM-WOH-D150	6" Flanged Hot Water Meter c/w pulse o/p	£1050.00
AX-WM-WOH-D200	8" Flanged Hot Water Meter c/w pulse o/p	£1125.00

METER SIZING

To size water meters correctly the following information is required:

- Pipe size
- Maximum flow rate (Qmax)
- Nominal flow rate (Qn)
- Maximum water temperature
- Water pressure (static and pump head)

POWER SUPPLIES, MONITORING & METERING

HEAT METER INTEGRATORS & ULTRASONIC WATER METERS

These integrators are designed to measure and record energy in installations where water is the main heat transfer medium. The normal application is to provide accurate energy consumption data for sub-metering or billing purposes.

- Battery back-up
 The integrator will accept two other pulse inputs from electricity, oil or gas meters and output the information over a network such as M-bus
- Data logging for 15 years Measures heating or cooling
- A variety of output cards (e.g. M-bus, LON, analogue, radio)
- M.I.D Approved

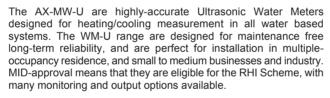


Note: If you want the D-cell lithium battery option change the -7-B code to 2-B

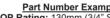
0-1 0-1	AU: 1 1 0 00 11	Link Dates
Order Codes	All include 2 x sensors & 3m cable	List Price
AX-WM-HM67C-6-00-7-B	Multical 601 230Vac, Pulse o/p to BMS	£285.00
AX-WM-HM67C-6-10-7-B	Multical 601 230Vac, Pulse o/p to BMS 2 x pulse I/p	£298.00
AX-WM-HM67C-6-20-7-B	Multical 601 230Vac, M-Bus o/p	£334.00
AX-WM-HM67C-6-24-7-B	Multical 601 230Vac, LON-FTT-10 o/p	£428.00
AX-WM-HM67C-6-00-8-B	Multical 601 24Vac, Pulse o/p to BMS	£285.00
AX-WM-HM67C-6-10-8-B	Multical 601 24Vac, Pulse o/p to BMS 2 x pulse I/p	£298.00
AX-WM-HM67C-6-20-8-B	Multical 601 24Vac, M-Bus o/p	£334.00
AX-WM-HM67C-6-24-8-B	Multical 601 24Vac, LON-FTT-10 o/p	£428.00
AX-WM-HM67C-65-57-324	65mm x R1/2 stainless steel pocket for 5.8mm diameter probe	Each £6.00
AX-WM-HM67C-65-57-327	90mm x R1/2 stainless steel pocket for 5.8mm diameter probe	Each £6.00
AX-WM-HM67C-65-57-314	150mm x R1/2 stainless steel pocket for 5.8mm diameter probe	Each £31.00

SPECIFICATION		
Temperature Range:	Heating	10 to 160°C
	Cooling	2 to 30°C
	Ambient	0 to 55°C

AX-WM-U



- High-Reliability No moving parts
- Hassle-Free Installation
- Combined integrator and meter
- Multiple output options Multiple power supply options
- Multiple sensor length options
- Up to 16 years battery life
- Wireless communication available
- M.I.D Approved



Part Number Examples
Size & QP Rating: 130mm (3/4" Screwed), 2.5QP
Output: M-Bus + 2 Pulse Outputs (VA, VB) Power Supply: Mains 230Vac Sensor Cable Length: 3m PT500

AX-WM-U7-M1M-2



Order Codes	Size & QP Rating (MF/hour)	List Price	
AX-WM-U3-XXX-X	Ultrasonic Meter - 1.5 QP - 110mm - 1/2" Screwed	£412.21	
AX-WM-U7-XXX-X	Ultrasonic Meter - 2.5 QP - 130mm - 3/4" Screwed	£414.83	
AX-WM-U9-XXX-X	Ultrasonic Meter - 3.5 QP - 260mm - 1" Screwed	£684.38	
AX-WM-UA-XXX-X	Ultrasonic Meter - 6 QP - 260mm - 1" Screwed	£768.81	
AX-WM-UC-XXX-X	Ultrasonic Meter 10 QP - 300mm - 1 1/2" Screwed	£877.07	
AX-WM-UE-XXX-X	Ultrasonic Meter 15 QP - 270mm - DN50 Flanged	£1125.41	
	Outputs/Communications		
AX-WM-UE-D1	Data + 2 Pulse Inputs (VA, VB)	Add £28.00	
D2	Data + 2 Pulse Outputs (CE, CV)	Add £28.00	
AX-WM-UE-M1	M-Bus + 2 Pulse Inputs (VA, VB)	Add £52.00	
M2	M-Bus + 2 Pulse Outputs (CE, CV)	Add £52.00	
AX-WM-UE-W1	Wireless M-Bus, EU 868 Mhz, Mode C1	Add £83.25	
	Power Supply		
AX-WM-UE-D1B	Data + 2 Pulse Inputs (VA, VB)	Add £0.00	
AX-MALLE-DAM	Data + 2 Pulse Outputs (CE, CV)	Add £0.00	
AX-WM-UE-M1L	M-Bus + 2 Pulse Inputs (VA, VB)	Add £0.00	
Sensor Cable Length			
AX-WM-UE-D1B1	1.5m PT500	Add £0.00	
2	3m PT500	Add £6.75	
AX-WM-UE-D1B3	5m PT500	Add £42.68	
AX-WM-UE-D1F4	10m PT500	Add £54.56	

		ION
D 0 1	0001	.45/000/ 50/0011
Power Supply:	230Vac	+15/-30%, 50/60Hz
	24Vac	±50%, 50/60Hz
	Battery	3.6Vdc ±0.2Vdc
Media Temp:	Heat Meters	15-130°C
	Cooling Meters	2-50°C
Environment:	Meets EN 1434	class A (MID class E1)
Press. Step:	PN16 (with threa	d)
	PN25 (with flanges)	
Weight:	1.8kg - 12kg	
Connection Cables:	ø3.5 - 6mm	
Supply Cable:	ø5 - 10mm	
Protection Class:	Calculator	IP54
	Flow Sensor	IP65
LCD Display:	7 (8) digits with a digital height of 7.6mm	
Energy Units:	MWh, kWh, Gcal	
Data Logger:	460 days, 36 months, 15 years, 50 info codes	
Supply Voltage:	36Vdc ±0.1Vdc	
Ambient Temp:	5-55°C, non condensing, closed location	



GAS, OIL & COMBINED WATER METERS

AX-WM-HM

Our new AX-WM-HM Mechanical Heat Meter comes complete with a fully electronic calculator, pocket and sensor leads. With a 10 year battery life & suitable for tempuratures up to 90oC, the unit is available in 15mm & 20mm line sizes and features pulse and M-Bus outputs as standard.

- Fully Electronic Calculator and Display
- Electronic sensor control for recording flow

- Lithium Battery 10 yea lifetime Reading Date for billing Single line 8 digit display for easy meter reading
- Sealed IP54 electronic housing
- Brass body
- Water Temperature up to 90°C
- Unit ships with couples and return sensor pocket as standard
- Optional Ball Valve for direct sensor connection if required
- Pulse and MBUS output as standard in one unit
- M.I.D Approved

SPECIFICATION		
Nominal Flow Rate:	HM15: 1,5 m³/h	HM20: 2,5 m³/h
Maximum Flow Rate:	HM15: 3 m³/h	HM20: 5 m³/h
Temperature Range:	5°C to 90°C	
Dynamic Range:	Class C	
Meter Connection:	HM15: G3/4B"	HM20: G1B"
Coupling Connection:	HM15: G1/2B"	HM20: G3/4B"

Order Codes List Price All complete with pulse output AX-WM-HM15 1/2" Connection - Mbus & Pulsed Output £160.00 AX-WM-HM20 3/4" Connection - Mbus & Pulsed Output £180.00

AX-GM-G

The AX-GM-Gxx is a range of cost effective Diaphragm Gas Meters which give a pulse output of the gas flow to the BMS.

- Pulse output to BMS or an integrator
- Oven catalysed epoxy coated



Order Codes	All complete with pulse output	List Price
AX-GM-G4P	20mm Diaphragm Gas Meter	£122.00
AX-GM-G6P	25mm Diaphragm Gas Meter	£270.00
AX-GM-G10P	30mm Diaphragm Gas Meter	£495.00
AX-GM-G16P	50mm Diaphragm Gas Meter	£760.00
AX-GM-G25P	50mm Diaphragm Gas Meter	£1095.00
AX-GM-G40P	DN65 Diaphragm Gas Meter	£2750.00
AX-GM-G65P	DN80 Diaphragm Gas Meter	£4150.00
AX-GM-G100P	DN100 Diaphragm Gas Meter	£6250.00

S	PECIFICATION
Switching Element:	Reed switch with dry contact
Nominal Pressure:	0.5 bar
Ambient Range:	10 to 50°C
Protection:	IP65
Flow Rates:	
AX-GM-G4P	6m³/hr
AX-GM-G6P	10m³/hr
AX-GM-G10P	16m³/hr
AX-GM-G16P	25m³/hr
AX-GM-G25P	40m³/hr
AX-GM-G40P	65m³/hr
AX-GM-G65P	100m³/hr
AX-GM-G100P	160m³/hr

The AX-OM-VZO is a range of cost effective Oil Meters which give a pulse output of the flow to the BMS or an energy monitoring system. The units include a mechanical roller counter which displays the volume in litres.



Order Codes		List Price
AX-OM-VZO-4P	1/8" Threaded Oil Meter c/w pulse output	£490.00
AX-OM-VZO-8P	1/4" Threaded Oil Meter c/w pulse output	£575.00
AX-OM-VZO-15P	1/2" Oil Meter c/w pulse output	£1200.00
AX-OM-VZO-20P	3/4" Oil Meter c/w pulse output	£1365.00
AX-OM-VZO-25P	1" Oil Meter c/w pulse output	£1600.00
AX-OM-VZO-40P	1 1/2" Oil Meter c/w pulse output	£2750.00

- Screwed and Flanged meters
- Pulse output to BMS or an integrator
- Suitable for oil to 180°C
- Mechanical roller counter, displays volume in

SPECIFICATION		
Switched Element:	Reed switch with dry contact	
Switching Voltage:	Max 48Va	c/dc
Switching Current:	Max 50mA	\
Static Current:	Open cont	act
Switching Power:	Max 3VA	
Nominal Pressure:	Screwed	16 bar
	Flanged	25 bar (40 available)
Ambient Range:	Screwed	-10 to +60°C
	Flanged	-10 to +130°C (option 180°C)
Protection:	IP65	
Flow Rates:		
AX-OM-VZO-4P	1 to 50 L/hr	
AX-OM-VZO-8P	4 to 200 L/hr	
AX-OM-VZO-15P	10 to 600 L/hr	
AX-OM-VZO-20P	30 to 1500 L/hr	
AX-OM-VZO-25P	75 to 3000 L/hr	
AX-OM-VZO-40P	225 to 9000 L/hr	

GAS & SMOKE DETECTION

Annicom introduces the new T51 range of highly competitive CO2 sensors from Telaire. We also offer BACnet or Modbus variants, with LCD or LED Displays and RH&T Outputs available.

And with the new range of TC3 advanced gas sensors, with standalone or our new addressable Gas Detection System, we can now offer a sensing solution regardless of medium, concentration or application.

- 58 Carbon Dioxide, Temperature & RH Sensors
- 59 Air Quality, Carbon Dioxide & Carbon Monoxide Sensors
- 60 Smoke, Refrigerant & LPG/LNG Sensors
- 61 Addressable System & Other Gas Detectors
- **62** Gas Proving & Interlock Systems

DID YOU KNOW?

Annicom has a new compact Carbon Monoxide Sensor with a replaceable sensing element to reduce service costs and downtime.

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 **59**



CARBON DIOXIDE SENSORS

AX-GS-CD-T81-x

CARBON DIOXIDE TRANSMITTER - LCD, RH&T, BACNET & MODBUS OPTIONS



The AX-GS-CD-T81 is our premium range of CO2 sensors, with a wide range of options including Relative Humidity, Temperature and BACNet and now ModBus Communications. The standard 0 to 2,000ppm output range can be customised for a proportional output, or a wider range, available on request.

Jumper selectable Outputs, a thermistor output for temperature, wide ranging options and customiseable output range make the T81 a flexible, complete solution for sensing the Air Quality in an occupied space. Optional LCD version completes this premium sensing solution.

FEATURES

- Optional LCD with PPM indication
- ABC self-calibration logic
- Optional RH and analogue temperature outputs
- Attractive high quality enclosure
- Scaleable to different ranges

Order Codes		List Price
AX-GS-CD-T81-E	CO2 Analogue + Thermistor (please Specify)	£175.00
AX-GS-CD-T81-ED	CO2 & Thermistor Output & LCD	£183.00
AX-GS-CD-T81-EH	RH & T & CO2 Analogue Output	£202.00
AX-GS-CD-T81-EHD	RH & T & CO2 Analogue Out + LCD	£212.00
-B	Bacnet MSTP/IP Communication	+ £17.00
-M	Modbus RTU Communication	+ £17.00

SPECIFICATION		
Power Supply:	18 to 30Vac/dc	
Output: T81	3 x 0-10Vdc or 4-20mA	
	Thermistor Temperature option	
CO2 Sensor Type:	Non-dispersive Infra-red	
Range:	0-2000ppm standard	
Calibration Interval:	Lifetime	
Temperature Range:	0-50°C	
RH Sensor Type:	Thermoset Polymer - Capacitive	
RH Accuracy:	±2.5% RH	

AX-GS-CD-T51-x

CARBON DIOXIDE TRANSMITTER - COST EFFECTIVE WITH LED OPTION



A range of attractive, cost effective wall mounted CO2 sensors with optional temperature output. Features include ABS self-calibration logic, and terminals mounted to the back plate for easier commissioning.

The unit also has the option of a multi-LED indicator of CO2 thresholds to display air quality in enclosed spaces (school classrooms, offices, gymnasiums, theatres etc.).

The unit comes complete with "Automatic Background Calibration" software to reduce drift to better than ±20ppm/year. Passive temperature output available.

Order Codes		List Price
AX-GS-CD-T51-EV	Room CO2 - 1 x 0-10Vdc	£125.00
AX-GS-CD-T51-EVT	Room CO2 - 1 x 0-10Vdc + Thermistor	£135.00
AX-GS-CD-T51-EI	Room CO2 - 1 x 4-20mA	£125.00
AX-GS-CD-T51-EIT	Room CO2 - 1 x 4-20mA + Thermistor	£135.00
AX-GS-CD-T51-EL	Room CO2 & Temperature - 2 x 0-10Vdc & LED	£145.00

FEATURES

- ABC self-calibration logic
- L version features 5 LED indication and analogue temperature output
- Ships with mounting screws
- Thermistor output available

SPECIFICATION		
Power Supply:	18 to 30Vac or 18 to 42Vdc	
Nominal Measurement Range: 0-2000ppm		
Output:	4-20mA or 0-5/10Vdc	
	Thermistor option	
LED (option):	6 LED indication of level	
Calibration Interval:	Not required	
Ambient Range:	0 to 50°C, 0-95% RH	

AX-GS-CD-Dx

DUCT CARBON DIOXIDE TRANSMITTER - 0-10Vdc OUTPUT, THERMISTOR OPTION



These Duct Carbon Dioxide and Temperature Sensors offer easy installation and maintenance. The units output CO2 as a 0-10V signal with the option of thermistor temperature output. The units have a lifetime calibration interval.

The AX-GS-CD-D8041 Carbon Dioxide Duct mounted Transmitter uses NDIR single beam infra-red technology to monitor the CO2 levels and give a 0-10V output of CO2 levels . The unit is designed to be mounted in the return air ducts. There is a Thermistor option output of the temperature.

		U		

- ABC self-calibration logic
- 2 probe lengths availableShips with mounting screws
- Thermistor output available

		DR
Order Codes		List Price
AX-GS-CD-D8041	Duct Mount - 0-10V - 10.46cm Probe	£155.00
AX-GS-CD-D8041-T	Duct Mount - 0-10V - 10.46cm Probe + Thermistor	£165.00
AX-GS-CD-D8042	Duct Mount - 0-10V - 20.32cm Probe	£175.00
AX-GS-CD-D8042-T	Duct Mount - 0-10V - 20.32cm Probe + Thermistor	£185.00

SPECIFICATION				
Power Supply:	18 to 30Vac/dc			
Output:	1 x 0-10Vdc			
	1 x Thermistor Temperature option			
CO2 Sensor Type:	Non-dispersive Infra-red			
Range:	0-2000ppm standard			
Calibration Interval:	Lifetime			
Temperature Range:	0-50°C			
RH Sensor Type:	Thermoset Polymer Based Capacitive			
RH Accuracy:	± 2.5% RH			

GAS & SMOKE DETECTION

CARBON DIOXIDE SWITCHES, AIR QUALITY & CARBON MONOXIDE SENSORS

AX-GS-CD-T51S



The AX-GS-CD-T51S features the same attractive housing and key features as the T51-E CO2 Sensor. The T51S offers an adjustable switched output for CO2 applications where more advanced control is not required.

The unit incorporates an intuitive Visual Level Indicator display for CO2 thresholds to maintain air quality in enclosed spaces (i.e. school classrooms, offices, gymnasiums, theatres etc.) The mounting style and 230Vac supply make this unit an excellent option for classroom installation.

Due to the keen pricing of the unit, it is perfect for display-only applications, where control is not required.

- High accuracy and stability Intuitive 6 LED display
- - 15 year recommended calibration interval

SPECIFICATION				
Power Supply:	85Vac to 265Vac			
Nominal Measurement Range:	600-2000ppm			
Consumption:	< 1.5W			
Output:	SPDT 8A resistive @ 230Vac			
Calibration Interval:	Not required			
Ambient Range:	0 to 50°C, 0-95% RH			

Order Codes		List Price
AX-GS-CD-T51S	Room Carbon Dioxide Switch	£135.00

AX-GS-CM-x



A high quality, tamper-proof CO transmitter for use in car parks and other non-ventilated areas. Rugged construction, UK manufacture and design, and a 3-year warranty make the AX-GS-CM range a compelling option for many applications.

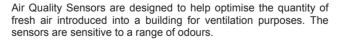
The unit provides a linear output signal for CO levels from 0-300ppm. The output voltage is configurable for either 0-5Vdc, 2-10Vdc or 0-10Vdc. An optional relay with jumper selectable trip points is available. The transmitter electronics are housed in the lid of the enclosure and are connected using plug-in connectors, this enables cost effective easy replacement using our three year exchange option.

Order Codes		List Price
AX-GS-CM-V	Wall mount Carbon Monoxide Sensor	£95.00
AX-GS-CM-VR	Wall mount Carbon Monoxide Sensor with relay output	£110.00

- High accuracy and stability
- 3 year recommended calibration interval
- Optional relay with wide selection of ppm level switchpoint

SPECIFICATION				
Power Supply:	24Vac/dc @ 100mA max ±10%			
Long Term Stability:	< 5% signal loss/year			
Accuracy:	±10% of FSD			
Monitoring Range:	0 to 300ppm			
Sensor Type:	Electrochemical			
Output:	0-5/10Vdc (optional relay)			
Relay Output (option):	SPCO 5A @ 250Vac (res)			
Ambient Range:	0 to 50°C			

AX-GS-AQ-x



Our new Air Quality Sensors feature optional exposed LCD and 3-colour LED for easy to interpret indication of air quality. Space and Outside versions are available, the AQ4300 includes a heater where condensation or extreme temperatures a concern.



- High accuracy and stability
- 2 year recommended calibration interval
- Combines all pollutants to give a mixed gas concentration
- Stepped, analogue and relay outputs
- Optional Exposed LCD
- Output equivalent of 0-2000ppm C02



Order Codes		List Price
AX-GS-AQ4100	Space 0-5/10Vdc - Concealed LCD	£195.00
AX-GS-AQ4101	Space 0-5/10Vdc - LCD + 3-Colour LED	£205.00
AX-GS-AQ4300	Outside 0-5/10Vdc - LCD + 3-Colour LED + Heater	£410.00
AX-GS-AQ4400	Outside 0-5/10Vdc Output - Concealed LCD, No Heater	£350.00
-T	Thermistor Output (please specify)	+ £6.00

С
n
ue 0-5Vdc or 0-10Vdc
50Vac (res)



SMOKE DETECTORS, FREON GAS, LNG & LPG GAS SENSORS

AX-GS-SDx



The GS-SD2000 Duct Smoke Detector has the option of either a Photoelectric sensor or an Ionisation sensor for high temperature applications. The sensors sample air currents passing through a duct using a range of sampling tubes and has 2 alarm relay outputs to switch on fans, blowers and send an alarm to the BMS or alarm panel.

The new FT sampling tube packs ship as three times 2-foot lengths that can be joined, and cut to size for extremely flexible installation.

- 24Vac/dc or 240Vac operation
- Photoelectric or ionisation sensor
- Two sets of 5A alarm outputs



Order Codes		List Price
AX-GS-SD2000-N	Duct Smoke Detector with ionisation sensor	£120.00
AX-GS-SD2000-P	Duct Smoke Detector with photoelectric sensor	£120.00
AX-GS-SD-STN1	Sampling tube 30 to 60cm	£8.00
AX-GS-SD-STN2.5	Sampling tube 60 to 120mm	£9.00
AX-GS-SD-STN5	Sampling tube 120 x 240mm	£11.00
AX-GS-SD-STN10	Sampling tube 240 x 360mm	£16.00
AX-GS-SD-FT	Sampling Tube - Modular (3x 2ft, can be cut)	£13.90

SPECIFICATION			
Power Supply:	24Vac/dc, 120Vac, 240Vac		
Sensor: -N	4 wire Ionisation		
Sensor: -P	4 wire Photoelectric		
Output:	2 x SPCO relay		
Contact Rating: Alarm	2 x 5A @ 250Vac (res)		
Contact Rating: Trouble	1 x 5A @ 250Vac (res)		
Ambient Range: -N	0 to 70°C		
Ambient Range: -P	0 to 60°C		
Protection:	IP54		

AX-GS-F134A



Freon gas detector with microorcessor control. This conducts both self diagnostics and automatically calibrates the sensor when ambient conditions vary, thus avoiding false alarms. Manufactured to meet relevant European Normatives and proposals for explosive and toxic gases.

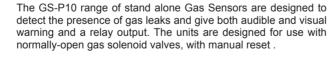
- IP55 Enclosure
- Sintered Head
- Semoconductor Sensor Technology
- Sensor Active Indicator
- Auto Calibration
- Suitable for Freon R134A
- Main Alarm Relay Output

(Order Codes		List Price
A	AX-GS-F134A	Freon 134a Refrigerant Sensor	£225.00

SPECIFICATION		
Power Supply:	12-24V DC +/- 10% from detector	
Power Consumption:	120mA @ 13.8V	
Sensor Type:	Semi-Conductor	
External protection rating:	IP55	
Main alarm relay: 300ppm		
Ambient Range:	-5 to +50°C, 0-95% RH	

AX-GS-P1x

SPACE GAS SENSORS - LNG (METHANE) AND LPG (PROPANE)



F	F	А	U	R	F:	S

- Stand alone wall mounted
- 5 year recommended calibration interval
- 3 indicator LED's for power on, fault and alarm
- ABC self-calibration logic
- 2 probe lengths available
- Ships with mounting screws
- Thermistor output available

======	_
==	

Order Codes		List Price
AX-GS-P11A	LNG (methane) Sensor	£125.00
AX-GS-P12A	LPG (propane) Sensor	£125.00

SPECIFICATION		
Power Supply:	230Vac 50Hz	
Power Consumption:	4VA	
Sensor Type:	Semi-Conductor	
Alarm Threshold Range:	<20% LEL (fixed)	
Relay Contact:	SPDT - 6A @ 240Vac (res) (2Aind)	
Audible Alarm:	85dB Piezo	
Ambient Range:	-5 to +40°C, 0-95% RH	

GAS & SMOKE DETECTION

ADDRESSABLE GAS DETECTION SYSTEM & OTHER GAS DETECTORS

AX-GS-Tx



A complete gas detection system with an impressive array of sensors and features, with a Modbus RS485 Port as standard for connecting to BMS and other networks.

The new AX-GS-TC-6 range of controllers feature either 8 or 32 Addressable Gas Detector inputs, allowing you to monitor a vast array of rooms and gasses, with one control unit. The units feature either 2 or 3 SPCO relay outputs, and 1 or 3 4-20mA Linear Outputs, which are user configurable. Both units feature Audio and Visual Alarms and a number of status indication LEDs. The more advanced AX-GS-TC640 includes a dedicated interlock to fire systems and an Emergency Stop Input, which is also system

- 110/230Vac and 24Vdc Versions
- Modbus RS485 Output
- Audio and Visual Alarm
- 8 or 32 Addresses Versions
- 2x or 3x SPCO
- 3x or 1x 4-20mA Versions
- 640 Version Features Emergency Stop Input
- 640 Version Features Dedicated Interlock

- Standard 2 gang pattress mount Industry standard 4-20mA output
- Dado mount or wall mount Pre-calibrated
- In-service calibration possible
- Replaceable sensor



Order Codes	Control Units - ModBus	List Price	
AX-GS-T625-230	230Vac - 8 Channels 3x 4-20ma, 2x SPCO Relay	£380.00	
AX-GS-T625-24	24Vdc - 8 ChannelS 3x 4-20ma, 2x SPCO Relay	£380.00	
AX-GS-T640-230	230Vac - 32 Channels 1x 4-20ma, 3x SPCO Relay	£705.00	
AX-GS-T640-24	24Vdc - 32 Channels 1x 4-20ma, 3x SPCO Relay	£705.00	
	Adressable Gas Sensors		
AX-GS-TC-3A-EPHC	Flammable Gas External Detector, 0-100% LEL	£185.00	
AX-GS-TC-3A-PHC	Flammable Gas Internal Detectors, 0-100% LEL	£181.00	
AX-GS-TC-32-CO	Carbon Monoxide Gas Detector, 1-100ppm	£310.00	
AX-GS-TC-3A-O2	Oxygen Gas Detector, 0-30% Vol	£435.00	
AX-GS-TC-3A-NO	Nitric Oxide Gas Detector, 0-200ppm	£490.00	
AX-GS-TC-3A-NO2	Nitrogen Dioxide Gas Detector, 0-20ppm	£515.00	
AX-GS-TC-3A-NH3	Ammonia Gas Detector, 0-100ppm	£945.00	
AX-GS-TC-3A-CL2	Chlorine Gas Detector, 0-20ppm	£570.00	
AX-GS-TC-3A-H2	Hydrogen Gas Detector, 0-100ppm	£595.00	
AX-GS-TC-3A-H2S	Hydrogen Sulphide Gas Detector, 0-20ppm	£370.00	
AX-5139001	Duct Sampling Kit	£155.00	

SP	ECIFICATION
Power Supply:	110/230Vac 50/60Hz or 24Vdc
Power Consumption:	25 Watts
No. Of Sensors:	625 = 8 sensors, 640 = 32 sensors
Relay Output:	4A @ 250Vac
Communication Port:	ModBus RS485
Audible Alarm:	Approx 80db @ 100mm
Ambient Range:	-5°C to 55°C, 5-95% RH Non- Condensing
Display:	2 Line 8 Digit LCD with Backlight
LED Indication:	Blue = Power On
	Yellow = Fault
	Red = Gas Alarm
Mounting:	Wall Mount (Panel Mount Available)
Dimensions	201mm x 141mm x 84mm
Weight:	840 grams
Protection:	IP54

AX-GS-TC3-x



The AXIO AX-GS-TC3- range of Gas Detectors provide accurate measurement of the background atmosphere to measure for a specific hazardous target gas. Clean lines and easy integration into existing or newly planned control systems make the AX-GS-TC3the safety engineer's device of choice. Using the latest microprocessor technology and software, the AX-GS-TC3- is a reliable long term monitoring solution. AX-GS-TC3- is supplied pre-calibrated and ready to use.

Order Codes		List Price
AX-GS-TC3-CO	Carbon Monoxide Gas Detector, 0-100ppm	£240.00
AX-GS-TC3-O2	Oxygen Gas Detector, 0-30% Volume	£370.00
AX-GS-TC3-NO	Nitric Oxide Gas Detector, 0-200ppm	£325.00
AX-GS-TC3-NO2	Nitrogen Dioxide Gas Detector, 0-20ppm	£325.00
AX-GS-TC3-NH3	Ammonia Gas Detector, 0-100ppm	£675.00
AX-GS-TC3-CL2	Chlorine Gas Detector, 0-20ppm	£325.00
AX-GS-TC3-H2	Hydrogen Gas Detector, 0-1000ppm	£355.00
AX-GS-TC3-H2S	Hydrogen Sulphide Gas Detector, 0-50ppm	£245.00
AX-5139001	Duct Sampling Kit	£155.00

- Standard 2 gang pattress mount Industry standard 4-20mA output
- Dado mount or wall mount
- Pre-calibrated
- In-service calibration possible
- Replaceable sensor

SPECIFICATION		
Power Supply:	18-28Vdc (Loop Powered)	
Output:	4-20mA linear output for calibrated gas and range	
Construction:	ABS	
General Accuracy:	±2% of range	
Sealing:	IP54	
Weight:	840g	
Ambient Range:	-5 to 55°C, 5-95% RH Non-Condensing	



GAS PROVING & INTERLOCK SYSTEMS

AX-GP-1

The Axio AX-GP-1 series is an elegant, economical solution interlock and proving. It meets the requirements of BS is extremely easy to install. The AX-GP-1 is intuitively and clearly labelled, the unit features comprehensive fa emergency stop status indication and is provided as a requisite peripherals.



tion to gas	ı
6173, and	Π
designed	
n, fire and	
kit with all	

- Comprehensive fan, fire & emergency stop status Indication
- Audible signal for failure & system ready
- On board emergency stop button
- Additional emergency stop buttons can be connected
- Fire alarm interlock
- Wipe clean fascia
- All connections on front panel
- 24 Hour Support Line

- 2 x Air Pressure Current Switch Interlocks
- 2 x Remote Emergency Stop Terminals
- 1 x Fire Alarm Interlock Terminal
- Onboard Emergency Stop Doubles as On/Off Button

Order Codes		List Price
AX-GP-1A	1 Series Interlock - Airflow Version	£275.00
AX-GP-1C	1 Series Interlock - Current Version	£395.00
AX-GP-1P	1 Series - Proving Version	£475.00

SPECIFICATION		
Power Supply:	230Vac - 5amp (50hz) supply	
Gas Valve Output:	230V - 3A	
Enclosure:	IP65 120mm x 190mm x 70mm	
Gas Pressure Proving:	GS-1P only	
Extract / Supply Fan Interlocks:	100S & CS	

AX-GP-GI

The Axio AX-GP-GI is a microprocessor based interlock system with all the benefits of our well-established 1 series. The system has the power to supply up to two, 0-10V sensor heads (CO2, Methane, LPG, 02 etc) and has the ability to interpret these signals into a relay switched output facilitating the emergency control of services via noxious gas detectors.



		11	D	
	А	U		

- Microprocessor controlled gas interlock system BS6173 compliant
- Supplied complete with air pressure switches; software deals with any APS flutter issues
- Wipe clean fascia
- On board emergency stop button that doubles as system On/Off switch
- Easy-to-read LED user display
- Fire alarm interlocks to facilitate connection to the buildings system and an Ansuls or other fire suppression system
- Auxiliary interlocks to connect gas detection equipment

- 2 x Fan interlocks (Air or Current)
- 2 x Emergency Stop
- 2 x Fire alarm / Ansuls
- 2 x Auxiliary Interlock (Air or Current)

Order Codes		List Price
AX-GP-GI	Gas Interlock Version	£385.00
AX-GP-GIP	Gas Proving Version	£595.00

SPECIFICATION		
Power Supply:	230Vac - 5amp (50hz) supply	
Gas Valve Output:	230V - 3A	
Enclosure:	IP65 270mm x 190mm x 90mm	
Gas Pressure Proving:	GIP only	
Gas Detection Supply:	24Vdc - 1A	

AIR VELOCITY, FLOW & LIQUID LEVEL

Annicom proudly introduce its UK made 316 Stainless Steel Air Velocity Probes featuring a pre-punched gasket for very easy installation.

We now offer several Air Velocity Transmitters and our own competitive Wind Speed and Direction Sensors with 2 x Analogue Outputs, and LED indication for easy commissioning. We source our Ultrasonic and Capacitance Level Sensors from the EU to complement our extensive range of float level sensors, and we're very excited to offer our new Hydrostatic Level Transmitters, and our Ultrasonic Pump Control System.

- **64** Air Velocity
- 65 Wind Speed & Direction & Liquid Flow
- 66 Liquid Level Switches
- 67 Liquid Level Hydrostatic & Capacitance
- **68** Liquid Level Ultrasonic Sensors & Systems

DID YOU KNOW?

Annicom's new range of British made Stainless Steel Air Velocity probes ship with fixing screws, flanges and pre-punched gaskets for fast and secure installation.

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 **65**

AIR VELOCITY

AX-AV-SP-ESF

AIR VELOCITY & TEMPERATURE TRANSMITTER - SINGLE POINT



A Single Point Air Velocity and Temperature Transmitter for use in ductwork, with both 0-10Vdc and4-20mA output on board for airflow and 0-10Vdc output of the temperature.

With the included flange, Temperature Output and Jumper Selectable ranges, the AX-AV-SP-ESF is an impressive, cost effective unit for Air Velocity measurement.

FEATURES

- Includes adjustable duct flange
- Jumper Selectable OutputsJumper Selectable Ranges
- Active Temperature Output
- 5% Accuracy as standard

PRIC
Liet Price

SPECIFICATION			
Accuracy:	±5% F.S.D		
Output: Air Flow	4-20mA & 0-10Vdc		
Output: Temperature	0-10Vdc		
Ranges: (jumper selectable) 0 to 8 or 0 to 16m/sec			

AX-AV-SPx

SINGLE POINT AIR VELOCITY TRANSMITTER - CLISTOM & LOW RANGES



Offering a very low range of 0-4m/sec, and the facilities for custom ranges, the AX-AV-SP range offers a choice of either a 0-10Vdc or 4-20mA output, and two available accuracies.

AX-AV-SP-ESF-35-2 4-20mA & 0-10Vdc, 5% Accuracy, 0-8/16m/sec £110.00

Order Codes

The output is damped in order to provide a stable control signal.

Order Codes		List Price
AX-AV-SPH4	0-4m/sec : 0-10Vdc Output : 8% Accuracy	£92.00
AX-AV-SP4-I	0-4m/sec : 4-20mA Output : 5% Accuracy	£125.00
AX-AV-SP4-V	0-4m/sec : 0-10Vdc Output : 5% Accuracy	£125.00
AX-AV-SPxx	Custom range, Custom Output. 5% Accuracy	£145.00

FEATURE

- 5% or 8% low cost version
- 24Vac or dc supply
- Damped output for stable control signal
- Custom Ranges Available

	SPECIFICATION			
•	AV AV OD	1.5% 5.0.D		
Accuracy:	AX-AV-SP	±5% F.S.D		
	AX-AV-SPH	±8% F.S.D		
Output:	AX-AV-SP4-I	4-20mA		
	AX-AV-SP4-V	0-10Vdc		
	AX-AV-SPH	0-10Vdc		
Supply:	AX-AV-SP	24Vdc ±15%		
	AX-AV-SPH	21 to 26Vac or 24Vdc ±15%		

AX-AV-EP-x

AIR VELOCITY PROBES - ABS PLASTIC

ABS Air Velocity Probes for use in ductwork. The probes can be connected to the relevant AX-ADPT air velocity transmitter to output velocity pressure to the BMS which can then accurately work out air velocity in m/s.

Order Codes		List Price
AX-AV-EP-200	Twin Probe 195mm	£15.00
AX-AV-EP-250	Twin Probe 252mm	£17.00
AX-AV-EP-300	Twin Probe 317mm	£30.50
AX-AV-EP-350	Twin Probe 375mm	£36.00
AX-AV-EP-450	Twin Probe 435mm	£37.00
AX-AV-EP-500	Twin Probe 492mm	£44.00
AX-AV-EP-550	Twin Probe 550mm	£55.00

FEATURES

- Includes duct flange plates for flat ducts
- Gasket seals the probe to the duct
- Designed to operate with AX-ADPT range of Air Velocity Transmitters

SPECIFICATION		
Materials	ABS	
Mounting:	Integral flange with gasket	
Connections:	ABS to suit 6mm ID PVC tube	
Ambient Range:	0 to 50°C	

AX-AV-MPP-x

AIR VELOCITY PROBES - MULTIPOINT - STAINLESS STEEL



Note: Other PVC tube colours available. See Page 45

Stainless Steel Multipoint Air Velocity Probes for use in ductwork. The two probes can be connected to the relevant AX-ADPT air velocity transmitter to output velocity pressure to the BMS which can then accurately work out air velocity in m/s. The units ship with pre-punched double gasket seals the probe to the duct without interfering with the fixings

Order Codes		Min Duct	Max Duct	List Price
AX-AV-MPP-400	2 x Multipoint Probes 400mm	248 mm	300 mm	£52.00
AX-AV-MPP-500	2 x Multipoint Probes 500mm	336 mm	400 mm	£55.00
AX-AV-MPP-600	2 x Multipoint Probes 600mm	424 mm	500 mm	£58.00
AX-AV-MPP-700	2 x Multipoint Probes 700mm	512 mm	600 mm	£62.00
AX-AV-MPP-800	2 x Multipoint Probes 800mm	599 mm	700 mm	£72.00
AX-AV-MPP-1000	2 x Multipoint Probes 1000mm	775 mm	900 mm	£85.00
AX-AV-MPP-1250	2 x Multipoint Probes 1250mm	995 mm	1150 mm	£95.00
AX-AV-MPP-1500	2 x Multipoint Probes 1500mm	1215 mm	1400 mm	£110.00
AX-AV-MPP-1750	2 x Multipoint Probes 1750mm	1434 mm	1650 mm	£120.00
AX-AV-MPP-2000	2 x Multipoint Probes 2000mm	1653 mm	1900 mm	£130.00
AX-AV-MPP-2150	2 x Multipoint Probes 2150mm	1875 mm	2150 mm	£120.00
AX-PVCT-Cx PVC Tubing for AX-AV-MPP - Price Per Metre			£1.00	

FFATURES

- Includes duct flange plates for flat duct
- Push-on connectors to suit 6mm ID tube
- Each set contains two probes, mounting flanges & pre-punched gaskets

SPECIFICATION		
Materials:	316 Stainless steel	
Connectors:	Stainless steel to suit 6mm ID PVC tube	
Duct Flange:	Stainless Steel 52mm diam	
Dimensions:	26mm diam	

AIR VELOCITY, FLOW & LIQUID LEVEL

WIND SPEED & DIRECTION & LIQUID FLOW

AX-EWSS

WIND SPEED SWITCH - SINGLE POLE DOLIBLE THROW

The AX-EWSS Wind Speed Switch is designed to activate an external device at a user defined wind speed. Consists of sensor, control box and 25 metre sensor cable.

FFATURES

SPDT relay output



Order Codes		List Price
AX-EWSS	Switch, Control box & 25m Cable	£375.00

SPECIFICATION			
Supply Voltage:	3m flying lead cable		
Wind Speed Range:	0-50m/sec		
Output:	SPDT Relay		
Output Rating:	5A		
Ambient Range:	-20 to +60°C		
Protection:	IP65		

AX-WSD-x

WIND SPEED & DIRECTION SENSORS - 0-10VDC & 4-20MA

The AXIO Wind Speed and Direction Sensors give an analogue output of both the wind speed and direction. The units are manufactured from anodised aluminium alloy, UPVC and stainless steel.

The AX-WSD-V Control unit features LED indication for easy commissioning. The units ship with 25 metres of cable, and all parts required for commissioning, including a compass.

FFATURES

- Analogue output of both wind speed and direction
- Control box features visual indication
- Ships with 25m of 4-core cable
- Ships with Compass for easy setup



Order Codes		List Price
AX-WSD-V	0-10VDC Output - LED indication Control Box	£425.00
AX-EWSD-20	4-20mA Output - Standard Control Box	£465.00
AX-WSD-2m-MAST	2m Aluminium mast for elevating sensor	£132.00

SPECIFICATION			
Electrical Connection:	25m cable		
Range: Wind speed	0-50m/s		
Range: Wind direction	10 to 360 degrees		
Output:	0-5, 0-10Vdc or 4-20mA		
Accuracy:	±5 degree and 0.5m/s typical		
Resolution:	Better than 05m/s and < 1 degree		

AX-WS-x

WEATHER STATION - FULLY CUSTOMISABLE

AXIO Weather Stations offer a full-spectrum of weather sensing technologies, for multiple applications, systems and environments.

There are options for a wide range of different sensor technologies and outputs. Each unit is built to order, and is made to the highest quality possible.

AXIO Weather Stations are custom-assembled to your requirements, please contact the sales office for a quotation.

FEATURES

- Wind speed and direction
- Barometric pressure
- Rain gauges
- Sunlight
- Relative Humidity Wet and dry bulb
- Outside temperature
- Radiation screens
- Ultrasonic Anemometers



LIQUID FLOW SWITCHES - STAINLESS STEEL PADDLE OPTION



This series of Paddle Switches is designed to monitor liquid flow in pipes and provide a switched output upon detection of either a specific flow rate or flow failure. The units screw directly into a 1 inch BSPT boss and have adjustable paddle lengths.

		U	R	

- Adjustable switching point
- Rated at 15A @ 230Vac
- Suitable for a wide range of media

Order Codes		List Price
AX-LFS	Liquid Flow Switch	£43.00
AX-LFS-S	Liquid Flow Switch - stainless steel	£165.00

SPECIFICATION				
	15 @ 230Vac (res) (8A ind)			
	IP54			
Paddle	Stainless Steel			
Rod	Brass (LFS-S - Stainless Steel)			
Enclosure	Thermoplastic			
nperature:	-20 to ±110°C			
is:	1, 2, 3 and 6 inches			
	670g			
	Paddle Rod Enclosure			

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 **67**



LIQUID LEVEL SWITCHES

AX-FL-NLN-x

LIQUID LEVEL FLOAT SWITCHES - SINGLE LEVEL



This cost effective range of Float Level Switches is suitable for single level applications. The units comprise a float, which is suspended from a weighted cable.

The AX-FL-NLN provides the perfect cost effective solution for single switch applications in water tanks, sumps etc.

FEATURES

- Easy installation
- Comes complete with counterweight
- Standard 5m cable length (10 & 20m options)
- Clean water as standard (waste water at additional cost)

Order Codes		List Price
AX-FL-NLN-105	Float Level Switch & 5m Cable	£19.00
AX-FL-NLN-110	Float Level Switch & 10m Cable	£25.00
AX-FL-NLN-120	Float Level Switch & 20m Cable	£40.00

SPECIFICATION			
Switch Rating:	16(10)A @ 250Vac (res)		
Standard Cable Length:	5m (10m & 20m options)		
Min Specific Gravity:	0.7		
Ambient Range:	0 to 50°C		

AX-LS-FL-x

ADVANCED LIQUID LEVEL FLOAT SWITCHES - MULTI-LEVEL



High-quality Float Level Switches for single level or multiple level applications. The units comprise a float, which is suspended from a weighted cable. Feautres include options for high-low level alarm, pump filling, emptying and versions suitable for oil tanks.

FEATURES

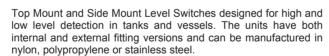
- Easy installation
- Alarm, filling, emptying and combined variant
- Standard 5m cable length
- Suitable for a wide range of liquids including oil

Order Codes		List Price
AX-LS-FL-1L	Low Level Alarm	£70.00
AX-LS-FL-1H	High Level Alarm	£70.00
AX-LS-FL-2L	Filling Pump Control	£125.00
AX-LS-FL-2H	Emptying Pump Control	£125.00
AX-LS-FH-2LH	High and Low Level Alarm	£130.00
AX-LS-FL-3L	Fill Pump Control, Low Level Alarm or dual fill Pump Control	£175.00
AX-LS-FL-3H	Empty Pump Control, High Level Alarm / Dual Empty Pump Control	£175.00
AX-LS-FL-4L	Filling Pump Control , High and Low Level Alarm	£230.00
AX-LS-FL-4H	Emptying Pump Control, High and Low Level Alarm	£230.00
AX-LS-FL-4L5E	Dual Pump Filling Control and Low Level Alarm	£255.00
AX-LS-FL-4H5E	Dual Pump Emptying Control and High Level Alarm	£255.00
AX-LS-FL-2LHEN	High and Low Level Alarm for oil tanks	£285.00

SPECIFICATION			
Switch Rating:	6A @ 240Vac (res) (max 24Vac/dc for flammeable liquids)		
Standard Cable Length:	5m		
Switching Level Difference:	Minimum: 250mm, Maximum: 1200mm		
Ambient Range:	0 to 55°C		

AX-LS-xFS

LEVEL SWITCHES - TOP & SIDE MOUNT



FEATURES

- High quality, cost effective solution
- Internal and External mounting options
- Available in Nylon, Polypropylene and Stainless Steel options
- Suitable for a wide range of liquids
 NO and NO contests available and
- NO and NC contacts available on some units



Order Codes		List Price
AX-LS-MFS-23F	Top Mount Switch - polypropylene NC	£17.00
AX-LS-MFS-25J	Top Mount Switch - polypropylene NO	£17.00
AX-LS-MFS9-N1-2	Side Level Switch - polypropylene internal	£24.00
AX-LS-MFS9-N2-2	Side Level Switch - nylon internal mount	£25.00
AX-LS-MFS10-N1-2	Side Level Switch - polypropylene external	£24.00
AX-LS-MFS10-N2-2	Side Level Switch - nylon external mount	£25.00
AX-LS-RFS-2-2	Top Mount Switch - stainless steel internal	£45.00
AX-LS-RFS-4-2	Side Level Switch - stainless steel external	£60.00

SPECIFICATION

SEE DATA SHEET

AIR VELOCITY, FLOW & LIQUID LEVEL

LIQUID LEVEL TRANSMITTERS - HYDROSTATIC & CAPACITANCE

AX-HL-x



Designed to measure the level of clean or contaminated water, the AX-HL range of Hydrostatic Level Sensors offers an excellent alternative to Ultrasonic equivalents. Installation is incredibly fast and easy with the provided cable clamp and terminal holding the wire in place.

The sensor sits at the bottom of the tank and measures the sum of the hydrostatic pressure of the liquid column above it versus atmospheric pressure. Variants include 4-20mA and 0-10Vdc versions, with Intrinsically Safe options available. An optional temperature output completes an impressive array of features.

A breathing capillary tube and filtered terminal block allow atmospheric pressure to be fed to the unit whilst preventing moisture damage to the electronics.

Options are available for up to 200 metres (bore holes, reservoirs etc) and are quoted on a per project basis, please call the sales office for more information.

- Incredibly easy installation & very fast setup
- Cost-effective vs Ultrasonic Solutions Temperature Compensated

 Tank Heights up to 200m Availab 	ole
---	-----

SPECIFICATION			
1m to 200m			
+/- 0.45%			
-10°C to +60°C			
12 to 30Vdc / 18 to 30Vdc			
2-wire 4-20mA & HART			
3-wire 0-10Vdc			
ATEX II 1 G Exia B T6			
IP68			
Cable Mount Wedge Clamp			
EN61326 Class B			
173mm x 22mm diameter			
210mm x 22mm diameter			

Order Codes	Full Description	List Price	Water Type	Tank Height	Cable Length	Output
AX-HL-C1-5I	Hydrostatic Level Sensor with 5 metre Polyurethane Cable, 2-Wire	£330.00	Clean	0-1m	5m	4-20mA & Hart
AX-HL-C2-5I	Hydrostatic Level Sensor with 5 metre Polyurethane Cable, 2-Wire	£330.00	Clean	0-2m	5m	4-20mA & Hart
AX-HL-C5-10I	Hydrostatic Level Sensor with 10 metre Polyurethane Cable, 2-Wire	£350.00	Clean	0-5m	10m	4-20mA & Hart
AX-HL-C10-15I	Hydrostatic Level Sensor with 15 metre Polyurethane Cable, 2-Wire	£370.00	Clean	0-10m	15m	4-20mA & Hart
AX-HL-C1-5V	Hydrostatic Level Sensor with 5 metre Polyurethane Cable, 3-Wire	£330.00	Clean	0-1m	5m	0-10Vdc
AX-HL-C2-5V	Hydrostatic Level Sensor with 5 metre Polyurethane Cable, 3-Wire	£330.00	Clean	0-2m	5m	0-10Vdc
AX-HL-C5-10V	Hydrostatic Level Sensor with 10 metre Polyurethane Cable, 3-Wire	£350.00	Clean	0-5m	10m	0-10Vdc
AX-HL-C10-15V	Hydrostatic Level Sensor with 15 metre Polyurethane Cable, 3-Wire	£370.00	Clean	0-10m	15m	0-10Vdc
-XX	Specify Custom Cable Length, Price per Meter	+ £3.95	Clean	-	_	-
-A	Intrinsically Safe Version	+ £48.00	Clean	-	-	-
-T	4-20mA Temperature Output, 4-20mA (I) versions	£49.00	Clean	_	_	-
AX-HL-W1-5I	Hydrostatic Level Sensor with 5 metre FEP Cable, 2-Wire	£380.00	Waste	0-1m	5m	4-20mA & Hart
AX-HL-W2-5I	Hydrostatic Level Sensor with 5 metre FEP Cable, 2-Wire	£380.00	Waste	0-2m	5m	4-20mA & Hart
AX-HL-W5-10I	Hydrostatic Level Sensor with 10 metre FEP Cable, 2-Wire	£415.00	Waste	0-5m	10m	4-20mA & Hart
AX-HL-W10-15I	Hydrostatic Level Sensor with 15 metre FEP Cable, 2-Wire	£455.00	Waste	0-10m	15m	4-20mA & Hart
AX-HL-W1-5V	Hydrostatic Level Sensor with 5 metre FEP Cable, 3-Wire	£380.00	Waste	0-1m	5m	0-10Vdc
AX-HL-W2-5V	Hydrostatic Level Sensor with 5 metre FEP Cable, 3-Wire	£380.00	Waste	0-2m	5m	0-10Vdc
AX-HL-W5-10V	Hydrostatic Level Sensor with 10 metre FEP Cable, 3-Wire	£415.00	Waste	0-5m	10m	0-10Vdc
AX-HL-W10-15V	Hydrostatic Level Sensor with 15 metre FEP Cable, 3-Wire	£455.00	Waste	0-10m	15m	0-10Vdc
-XX	Specify Custom Cable Length, Price per Meter	+ £7.65	Waste	_	_	_
-A	Intrinsically Safe Version	+ £48.00	Waste	-	-	-
-T	4-20mA Temperature Output, 4-20mA (I) versions	£49.00	Waste	-	_	-

AX-CAP-x



Capacitance Level Sensors designed for level measurement in tanks or sumps which provide a 4-20mA output to the BMS system or alarm. There are two ranges; the CTR/CBR range for use in conducting liquids such as water, and the CTP/CBP range for use with non conducting liquids, such as oil.

- Easy range adjustment on site
- Unaffected by vacuum or pressure Zero and span adjustment in head
- Suitable for a wide range of media

Order Codes	Conducting liquids - No display	List Price
AX-CAP-CTR310-2	Capacitance level sensor 1.0m probe	£480.00
AX-CAP-CTR315-2	Capacitance level sensor 1.5m probe	£515.00
AX-CAP-CTR320-2	Capacitance level sensor 2.0m probe	£540.00
AX-CAP-CTR325-2	Capacitance level sensor 2.5m probe	£560.00
AX-CAP-CTR330-2	Capacitance level sensor 3.0m probe	£595.00
Order Codes	Non-conducting liquids - No Display	List Price
AX-CAP-CTP310-2	Capacitance level sensor 1.0m probe	£455.00
AX-CAP-CTP315-2	Capacitance level sensor 1.5m probe	£475.00
AX-CAP-CTP320-2	Capacitance level sensor 2.0m probe	£505.00
AX-CAP-CTP325-2	Capacitance level sensor 2.5m probe	£520.00
AX-CAP-CTP330-2	Capacitance level sensor 3.0m probe	£550.00
-LCD	Display & programming unit	+ £75
-EX	Intrinsically safe version	+ 49
-Hart	Hart Re-transmission	+ £100

SPECIFICATION				
Power Supply:		12Vdc to 36Vdc		
Ranges:		0.5m min to max 3m		
Power Consumption	on:	Max 800mW		
Accuracy:		0.02% of measuring range		
Output:		4-20mA loop powered		
Process Connection:		1" B.S.P		
Electrode Type:	Conducting	Fully insulated rod or cable		
	Non Conducting	Semi insulated rod or cable		
Display: Optional		LCD under top		
Max Pressure:		40bar @ 25°C		
Process Temperature:		-30 to +130°C		
Ambient Temp. Range:		-25 to +70°C		



LIQUID LEVEL TRANSMITTERS & SYSTEMS - ULTRASONIC

AX-UL-PSW-x





An Ultrasonic Pump Control System providing fully automatic level control of small tanks, sumps, wetwells or sewage shafts. Each unit ships complete with an IP68 protected ultrasonic level transmitter which performs continuous level measurement and delivers 4-20mA level data to the main unit; the PSW user programmable controller.

The controller provides a relay output to the single phase pump acting in the tank, sumpwell etc The current controlled switch operates in differential level mode as default, with programmable high and low levels. The unit can incorporate a timer, enabling automatic pump cycling and jamming prevention in case of long idle periods. An optional AX-LS-NL float switch provides dry run or overfill protection, for applications where safety is a high priority.

The system can be turned on or off by a single pole miniature circuit breaker for standard operation, or a Motor Protection Switch for very advanced circuit protection (including lightning strikes).

Custom cable lengths can be ordered with the unit, please include a line for custom cable, price per metre can be found below.

Float switches are available for both clean and waste water, making this control solution flexible, effective and cost effective.



Order Codes AX-UL-PSW-101

AX-UL-PSW-102

AX-UL-PSW-111

AX-UL-PSW-112

AX-LS-NLN105

AX-LS-NLN-110 AX-LS-NWN-105

AX-LS-NWN-110

des		List Price
101	Sensor, Control Unit, 3m Cable & Miniature Circuit Breaker	£435.00
102	Sensor, Control Unit, 3m Cable & Motor Protection Switch	£535.00
111	Sensor, Control Unit, Timer, 3m Cable & Miniature Circuit Breaker	£465.00
112	Sensor, Control Unit, Timer, 3m Cable & Motor Protection Switch	£555.00
-Cxx	Custom Cable Length, Price Per Meter (Add to Part Number)	£2.95
05	Float Level Switch - Clean Water - 5m PVC Cable	£19.00
110	Float Level Switch - Clean Water - 10m PVC Cable	£25.00
105	Float Level Switch - Waste Water - 5m Neoprene Cable	£115.00

£138.00

- Provides Full Automatic Pump Control
- Highly Accurate Ultrasonic Level Measurement
- Maintenance Free
- Programmable Pump Cycling
 0.3m to 3m Measurement Range
- Optional Dry Run or OverFill Protection Custom Cable Lengths Available
- Suitable for Clean and Waste Water
- Optional Timer enables

SPECIFICATION			
Measuring Range:	0.3m to 3m		
Electromagnetic Compatibility:	EN61326 Class B		
Ultrasonic	Level Transmitter		
Weatherproof Rating:	LCD under top		
Materials:	Polypropylene		
Mounting:	1" BSP		
Process Temperature:	025°C to +60°C		
Power Supply:	24Vdc		
Output:	4-20mA		
Cable Length:	3m Shielded PVC		
Co	ontrol Unit		
Power Supply:	230Vac +/- 10%		
Functions:	Automatic Pump Control,		
(optional Timer)	Timed Pump Cycling		
	Programmable Pump On / Off		
(optional Timer)	Timer, 10 seconds to 100 days		
(optional float switch)	Overfill Protection		
(optional float switch)	Fail Safe Indication		
Miniature Circuit Breaker:	CLS 4-C10 / 2 10A Bipolar		
Mounting:	Wall Mount		
Electrical Connection:	4x Cable Glands - Max 4mm² wire		
Ambient Temperature:	-25°C to +45°C		
Weatherproof Rating:	IP65		

AX-UL-SEP / SGP / STP

Float Level Switch - Waste Water - 10m Neoprene Cable



Ultrasonic Level Sensors offer an extremely flexible, and comprehensive method of monitoring liquid levels in tanks and sumps.

The AX-UL-S range of Ultrasonic Level Sensors offers a range of options, including Intrinsically Safe and Diesel Suitability, and the -LCD Programming device makes commissioning simple. The units are of a very high quality and relay versions are available.

Other features include a broad operating range, Simple 2" BSPT fitting and IP67 dust and water ingress protection.

- 13-36Vdc Supply
- Very Accurate Monitoring
- Optional programming LCD acts as a display
- One LCD can program multiple units
- Easy Commissioning
- Very High Quality
 - Intrinsically Safe and Diesel Versions Available

Note: Variants available to suit any application. Pleas contact the Sales Office for more information.

		DRO
Order Codes		List Price
AX-UL-SEP-370-2	0.35 to 8m - no display - 4-20mA Loop Powered	£685.00
AX-UL-SEP-380-2	0.25 to 6m - no display - 4-20mA Loop Powered	£625.00
AX-UL-STV-370-2	0.35 to 8m - no display - 4-20mA Suitable for Diesel	£795.00
AX-UL-STV-380-2	0.25 to 6m - no display - 4-20mA Suitable for Diesel	£705.00
AX-UL-STP-370-4	0.35 to 8m - with display - 4-wire 4-20mA & 2x Relay	£820.00
AX-UL-STP-380-4	0.25 to 6m - with display - 4-wire 4-20mA & 2x Relay	£750.00
-LCD	Standalone SAP200 Programming display unit	£65.00
-R	Relay output (already 2 x in STP)	£40.00
-H	Hart Re-transmission	£105.00
-EX	Intrinsically Safe Version	£95.00

	SF	PECIFICATION
Power Su	ipply:	12 to 36Vdc
Max Curr	ent:	0.72W
Accuracy	:	0.2% of measurement range
Display: 0	Option	LCD under top
Tempera	ture Range:	-20 to +90°C
Max Stati	c Pressure:	-0.25 to 3 bar @ 20°C
Gland Th	read:	2" BSPT (for NPT change 0 in code to N)
Ranges:	Sxx-380	0.25 to 6m
	Sxx-370	0.35 to 8m
Output:	SEP/STV	4-20mA loop powered
	STP	4-20mA 4 wire + 2 relay
Protection	n:	IP67

OCCUPANCY & LIGHTING

Annicom offers ranges of extremely competitively priced PIR and Microwave Occupancy Sensors with light level, with the option of switched live or volt free outputs alongside light level transmitters to feed the BMS.

- 70 PIR Occupancy & Combined Light Level
- 71 Microwave & Light Level



DID YOU KNOW?

Annicom's Microwave Occupancy Sensors have a range of up to 30 metres and can take the place of four traditional PIR Sensors.

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 **71**



PIR OCCUPANCY SENSORS

AX-OCF-x

PIR OCCUPANCY SENSORS WITH LUX LEVEL OPTION



The AX-OCF range of occupancy sensors are passive infra-red sensors for monitoring occupation through body heat. Detection of occupation will activate the internal relay, giving a switched output.

The units include a light level control to disable lighting if enough natural light is present. There are 230Vac and 24Vac/dc variants, with options for both VFC and Switched Live outputs, making the OCF range both versatile, competitive whilst maintaining very high quality levels.

FFATURES

- Cost effective solution
- Flush, surface or wall mounted
- Adjustable Timer
- Optional switched live or volt free outputs



AX-OCF-S Surface Mount Occupancy

Flush Mount Occupancy Sensor

AX-OCF-F



AX-OCF-W Wall Mount Occupancy

Order Codes		List Price
AX-OCF-230-F	Switched live output, 230Vac, flush mount	£45.00
AX-OCF-230-S	Switched live output, 230Vac, surface mount	£45.00
AX-OCF-230-W	Switched live output, 230Vac, wall mount	£33.00
AX-OCF-230-W-IP65	Switched live output, 230Vac, wall mount - IP65	£37.00
AX-OCF-230-F-VFC	VFC output, 230Vac, flush mount	£47.00
AX-OCF-230-S-VFC	VFC output, 230Vac, surface mount	£47.00
AX-OCF-24-F-VFC	VFC output, 24Vac, flush mount	£47.00
AX-OCF-24-S-VFC	VFC output, 24Vac, surface mount	£47.00

	2052151	0.4.7.1.0.11
	SPECIFI	CATION
Power Supply:	-24	24Vac/dc ±20%
	-240	96 to 253Vac 50/60Hz
Field of View:	Flush & Surface	360 degrees
	Wall	110 degrees
Coverage:	Flush & Surface	8m diameter at 2.8m height
	Wall	Up to 10m
Occupancy Sensor Type:		Passive Infra-Red Detector
Light Level Sensor:		Light dependent resistor
Light Level Mea	surement:	0-2000 Lux
Output:		Switched Live
	-VFC	Volt Free Contact
Relay:		SPST - NO
Contact Rating:		10A @ 240Vac (res)
Timer:		10 secs to 12mins
Ambient Range	:	-10 to +50°C

AX-OC-24-x

PIR OCCUPANCY SENSORS - WALL MOUNT - VEC

Wall Mounted Occupancy Sensors for fitting into a standard, single-gang patress. There are 24Vac and 230Vac versions, both with a Volt Free Contact Output.



- Cost effective solution
- Flush or surface mounted
- Adjustable timer
- Switched live outputs



Order Codes		List Price
AX-OC-24-W-VFC	Wall / Single Gang - 24Vac Supply, VFC Switch	£48.00
AX-OC-230-W-VFC	Wall / Single Gang - 230Vac Supply, VFC Switch	£49.00

SPECIFICATION	
Power Supply:	230Vac 50Hz ±10% / 24Vac ±15%
Light Level Sensor:	Light dependent resistor
Occupancy Sensor Type:	Passive Infra-Red Detector
Field of View:	180°
Coverage:	7m diameter at 2.8m height (max)
Output:	Switched Live
Timer:	10 secs to 30 mins
Ambient Range:	-10 to +35°C

OCCUPANCY & LIGHTING

MICROWAVE & LIGHT LEVEL SENSORS

AX-OC-MWS-x



AX-OC-MWS-1 Wall Mounted

Microwave Occupancy Sensors provide several benefits over traditional Passive Infared type detectors. Most notably, they can offer detection ranges of up to 30 metres (replacing up to four PIR Sensors) and are not affected by moving heat sources, such as radiators

Microwave Occupancy Detectors are designed to provide automatic control of lighting, heating or ventilation loads. The MWS detects movement using a highly sensitive microwave detector. This works by emitting low power microwave signals and measuring the reflections as the signals bounce off moving objects. All the units are programmed by one of two hand-held programmer. The MWS-3 ceiling mount unit can be angled to adjust the sensing area.

- Wall, ceiling or surface mounting
- Volt free contact or switched live output
- Handheld IR Programmer
- Compact housing



AX-OC-MWS-3 Ceiling Mounted

Order Codes		List Price
AX-OC-MWS-1	Wall mount - 230Vac - 230Vac	£135.00
AX-OC-MWS-1L	Wall mount - 24Vac powered & switched	£145.00
AX-OC-MWS-1VF	Wall mount - 230Vac - VFC	£145.00
AX-OC-MWS-3	Ceiling mount - 230Vac - 230Vac	£140.00
AX-OC-MWS-3L	Ceiling mount - 24Vac powered & switched	£150.00
AX-OC-MWS-3VF	Ceiling mount - 230Vac - VFC	£150.00
AX-OC-MWS-UHL	Handheld programmer with LCD display	£185.00
AX-OC-MWS-UHS	Handheld programmer - on/off & lux control	£28.00

	SPECIFICATION			
Power Supply:		220-240Vac 50Hz		
Sensor Type:	MWS-1	1	Microwave	
	MWS-3	3	Microwave	
			Light Level	
Mounting:	MWS-1	1	Wall	
	MWS-3	3	Ceiling	
Output:		Switched live or VFC		
Range:		Up to 30m		
Contact Rating: -VFC		10A @ 240	Vac (res)	
Delay Timer:		Adjustable 15 seconds to 30 minutes		
Electrical Conn	ections:	4mm²		
Materials:		Flame retardant ABS		
Conformity:		EMC: -89/336/EEC		
		LVD: -73/23/EEC		
Ambient Range:		-10 to +35°C		

AX-LL-O



Light Level Transmitters in an IP65 housing, available in wall, and flush mounts. Features include Jumper Selectable Lux Ranges (0-2000, 0-6000 and 0-10,000), an IP65 enclosure as standard, and ±5% accuracy across the range.

- Cost effective solution
- IP65 enclosure All analogue 0-10Vdc output

Order Codes		List Price
AX-LL-O	IP65 wall mount 0-2000, 6000 & 10,000 Lux, 0-10Vdc	£48.00
AX-LL-O-20	IP65 wall mount, 0-20,000 Lux, 0-10Vdc	£115.00

SPECIFICATION		
Power Supply:	24Vac/dc ±15%	
Light Level Sensor:	Light dependent resistor	
Light Level Measurement:	0-10000 Lux (3x range selectable)	
Output:	0-10Vdc	
Accuracy:	±5% across range	
Ambient Range:	0 to 50°C	

Annicom has a comprehensive range of Fan Coil, PICV, Balancing, Terminal, Zone, Butterfly, Rotary Shoe, Solenoid and Gas Solenoid Valves and Actuators combined with two ranges of Damper Actuators suitable for many applications.

- 73 Fan Coil Valves & Actuators
- 74 PICVs & Balancing Valves
- 75 Terminal & Zone Valves
- **76** Rotary Shoe Valves
- 77 Ball Valves & Actuators
- 77 Zone Valves & Actuators
- 78 Butterfly Valves & Actuators
- 79 Gas Solenoid Valves
- 80 Solenoid Valves
- 81-82 Damper Actuators
 - 83 Fail-Safe Damper Actuators

DID YOU KNOW?

Pressure Independent Control Valves offer incredibly easy commissioning versus traditional Balancing Valves.

FAN COIL VALVES & ACTUATORS

AX-VF-xUL

FAN COIL VALVES



High-quality two, three and four port Fan Coil Valves designed for control of hot and chilled water flow in fan-coil units, reheaters and recoolers. No additional linkages for actuators are required.

Compression connection versions are suitable for 10/15mm copper pipe and ship complete with a nut and olive for direct connection.

The flat faced versions offer a wider range of port sizes and much higher Kvs rating, compression fittings sold separately.

FEATURES

- PN16 bronze/brass valves
- Suitable for floating, proportional or thermal actuators
- 2, 3 and 4 port versions
- 15mm copper pipe version ships with nut and olive
- Iron Pipe Versions Available with High Kvs

Copper Pipe up to	Copper Pipe up to 15mm - Compression Connection (ships with nut + olive)			
Order Codes	Port	DN	Kvs	List Price
AX-VF-VUL10F630	2	10mm	0.40	£20.50
AX-VF-VUL10F620	2	10mm	0.63	£20.50
AX-VF-VUL10F610	2	10mm	1.00	£20.50
AX-VF-VUL10F600	2	10mm	1.60	£20.50
AX-VF-BUL10F630	4	10mm	0.40	£42.50
AX-VF-BUL10F620	4	10mm	0.63	£42.50
AX-VF-BUL10F610	4	10mm	1.00	£42.50
AX-VF-BUL10F600	4	10mm	1.60	£42.50

			Connection - N	
Order Codes	Port	DN	Kvs	List Price
AX-VF-VUL10F340	2	10mm	0.16	£17.20
AX-VF-VUL10F330	2	10mm	0.40	£17.20
AX-VF-VUL10F320	2	10mm	0.63	£17.20
AX-VF-VUL10F310	2	10mm	1.00	£17.20
AX-VF-VUL10F300	2	10mm	1.60	£17.20
AX-VF-VUL15F310	2	15mm	2.50	£20.50
AX-VF-VUL15F300	2	15mm	3.50	£20.50
AX-VF-VUL20F300	2	20mm	4.50	£27.25
AX-VF-BUL10F340	3	10mm	0.16	£37.70
AX-VF-BUL10F330	3	10mm	0.40	£37.70
AX-VF-BUL10F320	3	10mm	0.63	£37.70
AX-VF-BUL10F310	3	10mm	1.00	£37.70
AX-VF-BUL10F300	3	10mm	1.60	£37.70
AX-VF-BUL15F310	3	15mm	2.50	£42.50
AX-VF-BUL15F300	3	15mm	3.50	£42.50
AX-VF-BUL20F300	3	20mm	4.50	£52.00
AX-VF-BUL10F440	4	10mm	0.16	£41.70
AX-VF-BUL10F430	4	10mm	0.40	£41.70
AX-VF-BUL10F420	4	10mm	0.63	£41.70
AX-VF-BUL10F410	4	10mm	1.00	£41.70
AX-VF-BUL10F400	4	10mm	1.60	£41.70
AX-VF-BUL15F410	4	15mm	2.50	£48.40
AX-VF-BUL15F400	4	15mm	3.50	£48.40
AX-VF-BUL20F400	4	20mm	4.50	£55.50

Fittings for Iron Pipe / Flat Face Connection			
Order Codes	Description	List Price	
Compression Fittings			
378145010-SP	DN10 flat face (1/2B)	£5.20	
378145015	For Pipes DN15 flat seal £7.10		
378145020	For Pipes DN20 flat seal £18.90		
	Threaded Sleeves		
378133010	For B/V. L015	£3.50	
378133015	For B/V.L015 £4.40		
378133020	For B/V.L020 £6.50		

Select suitable fittings if necessary

SPECIFICATION			
Materials:	10mm	Nickel Plated cast Brass	
	15/20mm	Gunmetal	
Operation:	2-Port	Stem up open port A to AB	
	Mixing	Step up open A to AB	
	Diverting	Step up open AB to A	
Stroke Length:		4mm	
Flow Type:		Equal percentage A-AB	
		Linear for bypass B-AB	
Liquid Temperature:		2 to 110°C	
Max Static Pressure:		PN16 (16bar)	
Leakage:		< 0.0001% of Kvs	

AX-VM-x

FAN COIL VALVE ACTUATORS



A range of high-quality Actuators suitable for the AX-VF-xx range of Fan Coil Valves. The AX-VM-S & AX-VM-M are gear train actuators and the AX-VM-T are Thermal Actuators designed for on/off control.

Order Codes		List Price
AX-VM-T211F110	Thermal Actuator 115N & 1m cable 230Vac	£25.00
AX-VM-T211F210	Thermal Actuator 110N & 1m cable 230Vac	£25.00
AX-VM-T211F112	Thermal Actuator 115N & 1m cable 24Vac	£25.00
AX-VM-T211F212	Thermal Actuator 110N % 1m cable 24Vac	£25.00
AX-VM-T215F12	Modulating Actuator 115N & 1m cable 24Vac	£25.00
AX-VM-S215F22	Modulating Actuator 110N & 1m cable 24Vac	£55.00
AX-VM-M217F200	Raise/Lower Actuator 115N & 1m cable 230Vac	£89.00
AX-VM-M217F202	Raise/Lower Actuator 115N & 1m cable 24Vac	£71.00

AX-VM-M217SF40 | Modulating Actuator 120N & 1m cable 24Vac

EATURES

- Low power consumption
- 230Vac or 24Vac
- Easy installation
- Come complete with 1m cable

	SPECIFI	CATION
Control Modes:	AX-VM-T211	Thermal
	AX-VM-M217F	Floating Point
	AX-VM-M217SF	Proportional 0/2-10Vdc
		24Vac 50/60Hz (±10%)
		230Vac
Power Consumption:	Gear Train	0.7A (1.4W initial consumption)
	Thermal	3W (17W initial consumption)
Stem Force:		115Nm
Connecting Cable:		1m flying lead
Ambient Range:		0 to 55°C

£92.00



PICVS & BALANCING VALVES



Direct reading Balancing Valves with integrated flow meter. These valves are used to facilitate rapid commissioning of terminal units, negating the requirement for flow metering devices.

- Multi-turn valve for accurate flow regulation Clear visual flow rate indication
- Different pipe connection options
- Can be installed in any orientation

Order Codes	DN	Size	Flow (1/min)	Kvs	List Price
AX-3498000	15mm	15mm Comp	1 to 8	1.7	£20.50
AX-3498010	15mm	1/2" F Iron BSP	1 to 8	1.7	£21.00
AX-3498013	20mm	15/22mm Comp	1 to 8	1.7	£32.00
AX-3498025	20mm	15mm Comp	2 to 16	2.0	£33.00
AX-3498030	20mm	22mm Comp	2 to 16	2.0	£33.00
AX-3498020	20mm	3/4" F Iron BSP	2 to 16	2.0	£29.00

SPECIFICATION		
Max Operating Temperature:	100°C at 7 bar	
Min Operating Temperature:	-10°C at 10 bar	
Max Operating Pressure:	70°C at 10 bar	
Flow Meter Accuracy: ±10%		



Order Codes	DN	Size	Flow (1/min)	Kvs	List Price
AXI-3498285	20mm	15/22mm Comp	0.5 to 7	1.5	£48.00
AXI-3498290	20mm	15/22mm Comp	2 to 16	3.0	£43.00
AXI-3498295	20mm	15/22mm Comp	4 to 36	3.5	£43.00
AXI-3498355	25mm	1" F Iron BSP	5 to 50	5.5	£78.00
AXI-3498360	32mm	1 1/4" F Iron BSP	10 to 80	9.0	£93.00
AXI-3498365	40mm	1 1/2" F Iron BSP	15 to 120	14.0	£98.00

25 to 200

18.0

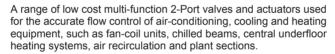
£115.00

- Low noise transmission
- Clear visual flow rate indication
- Tamperproof locking facility
 Multi-turn valve for accurate flow regulation
- Can be installed in any orientation

SPECIFICATION					
Max Operating Temperature:	100°C at 7 bar				
Min Operating Temperature:	-20°C at 10 bar				
Max Operating Pressure:	70°C at 10 bar				
Flow Meter Accuracy:	±10%				

50mm 2" F Iron BSP

AXI-3498370





Note: Larger PICVs are available Contact Sales Office for more information.

2 port PICV without pressure nipple						
Order Codes	DN	Connection	Flow (1/hr)	List Price		
AX-VDL010F210	10mm	G1/2B	30 to 200	£88.00		
AX-VDL010F200	10mm	G1/2B	65 to 370	£90.50		
AX-VDL015F220	15mm	G3/4B	30 to 200	£107.70		
AX-VDL015F210	15mm	G3/4B	65 to 370	£109.50		
AX-VDL015F200	15mm	G3/4B	100 to 575	£107.70		
AX-VDL020F220	20mm	G1B	100 to 575	£122.50		
AX-VDL020F210	20mm	G1B	160 to 990	£124.00		
AX-VDL020F200	20mm	G1B	220 to 1330	£127.00		

2 port PICV with pressure nipple				
Order Codes	DN	Connection	Flow (1/hr)	List Price
AX-VDL010F211	10mm	G1/2B	30 to 200	£106.00
AX-VDL010F201	10mm	G1/2B	65 to 370	£109.45
AX-VDL015F221	15mm	G3/4B	30 to 200	£118.80
AX-VDL015F211	15mm	G3/4B	65 to 370	£121.00
AX-VDL015F201	15mm	G3/4B	100 to 575	£118.80
AX-VDL020F221	20mm	G1B	100 to 575	£139.70
AX-VDL020F211	20mm	G1B	160 to 990	£139.70
AX-VDL020F201	20mm	G1B	220 to 1330	£141.90

Actuators to suit AX-VDL					
Order Codes			List Price		
AX-AXT211F110	Thermal Actuator & 1m cable 230Vac	115N	£22.75		
AX-AXT211F112	Thermal Actuator & 1m cable 24Vac	115N	£22.75		
AX-AXS215SF122	Modulating Actuator & 1m cable 24Vac	115N	£50.00		
AX-AXM217SF402	Modulating Actuator & 1m cable 24Vac	120N	£84.00		

- Regulating Valve with 3 functions: control, preset maximum volume, automatic flow regulation
- Large range 30 to 1330 1/hr
- Easy to preset the maximum required
- With or without pressure measurement nipples

SPECIFICATION					
Dezincification-resistant brass					
30-1330 L/hr					
14-400 kpa					
0-120°C					

ROTARY SHOE & ZONE VALVES



Brass Rotary Shoe Valves for use in heating systems for mixing or diverting applications. The valves come complete with female BSP threaded connections.

- Good control characteristics
- Mixing or diverting applications
- PN10

Order Codes			List Price
AX-RSVM3R15F200	3 Port 15mm BSP Screwed RS	V Kvs 2.5	£74.80
AX-RSVM3R20F200	3 Port 20mm BSP Screwed RS	V Kvs 6.0	£74.80
AX-RSVM3R25F200	3 Port 25mm BSP Screwed RS	V Kvs 12.0	£76.45
AX-RSVM3R32F200	3 Port 32mm BSP Screwed RS	V Kvs 18.0	£83.05
AX-RSVM3R40F200	3 Port 40mm BSP Screwed RS	V Kvs 26.0	£157.30
AX-RSVM3R50F200	3 Port 50mm BSP Screwed RS	V Kvs 40.0	£229.80
AX-RSVM4R20F200	4 Port 20mm BSP Screwed RS	V Kvs 6.0	£74.80
AX-RSVM4R25F200	4 Port 25mm BSP Screwed RS	V Kvs 12.0	£90.20
AX-RSVM4R32F200	4 Port 32mm BSP Screwed RS	V Kvs 18.0	£95.70
AX-RSVM4R40F200	4 Port 40mm BSP Screwed RS	V Kvs 26.0	£165.00
AX-RSVM4R50F200	4 Port 50mm BSP Screwed RS	V Kvs 40.0	£237.60
AX-DASM105SF132	5nm 0-10V actuator 24Vac	c/w linkage kit	£126.50
AX-DASM115SF132	10nm 0-10V actuator 24Vac	c/w linkage kit	£150.70
AX-DASM124SF132	15nm 0-10V actuator 24Vac	c/w linkage kit	£228.80

SPECIFICATION				
Mixing or Diverting				
Brass				
2 to +110°C				
100kPa				
PN10				
3 Port - 1%				
4 Port - 1.5%				

Iron Rotary Shoe Valves for use in heating systems for mixing or diverting applications. The valves come complete with PN6 flanged connections from 50 to 150mm.

- Good control characteristics
- Mixing or diverting applications
- Iron
- PN10



Order Codes			List Price
AX-RSVMH32F20	3 Port 20mm BSP Screwed RSV	Kvs 12.0	£137.50
AX-RSVMH32F25	3 Port 25mm BSP Screwed RSV	Kvs 18.0	£145.20
AX-RSVMH32F32	3 Port 32mm BSP Screwed RSV	Kvs 28.0	£178.20
AX-RSVMH32F40	3 Port 40mm BSP Screwed RSV	Kvs 44.0	£187.00
AX-RSVMH32F50	3 Port 50mm BSP Screwed RSV	Kvs 66.0	£242.00
AX-RSVMH32F65	3 Port 65mm Flanged RSV	Kvs 100.0	£265.10
AX-RSVMH32F80	3 Port 80mm Flanged RSV	Kvs 150.0	£357.50
AX-RSVMH32F100	3 Port 100mm Flanged RSV	Kvs 225.0	£449.90
AX-RSVMH32F125	3 Port 125mm Flanged RSV	Kvs 310.0	£589.60
AX-RSVMH32F150	3 Port 150mm Flanged RSV	Kvs 420.0	£786.50
AX-RSVMH42F32	4 Port 32mm BSP Screwed RSV	Kvs 28.0	£193.60
AX-RSVMH42F40	4 Port 40mm BSP Screwed RSV	Kvs 44.0	£224.40
AX-RSVMH42F50	4 Port 50mm BSP Screwed RSV	Kvs 66.0	£281.60
AX-DASM105SF132	5nm 0-10V Actuator 24Vac	/w linkage kit	£126.50
AX-DASM115SF132	10nm 0-10V Actuator 24Vac o	/w linkage kit	£150.70

AX-RSVMH32F32	3 Port 32mm BSP Screwed RSV	Kvs 28.0	£178.20
AX-RSVMH32F40	3 Port 40mm BSP Screwed RSV	Kvs 44.0	£187.00
AX-RSVMH32F50	3 Port 50mm BSP Screwed RSV	Kvs 66.0	£242.00
AX-RSVMH32F65	3 Port 65mm Flanged RSV	Kvs 100.0	£265.10
AX-RSVMH32F80	3 Port 80mm Flanged RSV	Kvs 150.0	£357.50
AX-RSVMH32F100	3 Port 100mm Flanged RSV	Kvs 225.0	£449.90
AX-RSVMH32F125	3 Port 125mm Flanged RSV	Kvs 310.0	£589.60
AX-RSVMH32F150	3 Port 150mm Flanged RSV	Kvs 420.0	£786.50
AX-RSVMH42F32	4 Port 32mm BSP Screwed RSV	Kvs 28.0	£193.60
AX-RSVMH42F40	4 Port 40mm BSP Screwed RSV	Kvs 44.0	£224.40
AX-RSVMH42F50	4 Port 50mm BSP Screwed RSV	Kvs 66.0	£281.60
AX-DASM105SF132	5nm 0-10V Actuator 24Vac	c/w linkage kit	£126.50
AX-DASM115SF132	10nm 0-10V Actuator 24Vac c	c/w linkage kit	£150.70
AX-DASM124SF132	15nm 0-10V Actuator 24Vac 0	c/w linkage kit	£228.80

		CI	C		\cap	N
	-	.				

Flow Type:	Mixing or Diverting
Materials:	Iron (brass gate & spindle)
Fluid Temperature:	2 to +110°C
Max pressure Drop:	100kPa
Pressure Class:	PN6
Letby:	3 Port - 1%
	4 Port - 1.5%

AX-ZV-3-28-24

Two and three port Zone Valves which are designed for on/off control of fluid flow in a variety of heating and cooling applications.



Order Codes List Price AX-ZV-2-15-230 2 Port 1/2" BSP Zone Valve 230Vac £41.00 AX-ZV-2-22-230 2 Port 3/4" BSP Zone Valve 230Vac £44.00 AX-ZV-2-28-230 2 Port 1" BSP Zone Valve 230Vac £46.00 AX-ZV-3-15-230 3 Port 1/2" BSP Zone Valve 230Vac £43.50 AX-ZV-3-22-230 3 Port 3/4" BSP Zone Valve 230Vac £45.00 AX-ZV-3-28-230 3 Port 1" BSP Zone Valve 230Vac £47.50 2 Port 1/2" BSP Zone Valve 24Vac AX-ZV-2-15-24 £43.00 2 Port 3/4" BSP Zone Valve 24Vac AX-ZV-2-22-24 £46.00 AX-ZV-2-28-24 2 Port 1" BSP Zone Valve 24Vac £48.00 AX-ZV-3-15-24 3 Port 1/2" BSP Zone Valve 24Vac £45.50 3 Port 3/4" BSP Zone Valve 24Vac £47.00 AX-ZV-3-22-24

3 Port 1" BSP Zone Valve 24Vac

- Reliable synchronous motor
- Spring return mechanism as a failsafe
- 2 port and 3 port versions

SPECIFICATION					
Power Supply:	230Vac and 24Vac				
Power Consumption:	6W				
Pressure Limit:	Static 10bar				
	Differential 15mm	1.4bar			
	Differential 22mm	0.7bar			
	Differential 28mm	0.6bar			
Operating Times:	Opening	< 12secs max			
	Closing	< 15secs max			
Liquid Temperature:	5 to 88°C				
Ambient Range: 0 to 60°C					

+44 (0)1420 48 77 88 +44 (0)1420 48 77 99

£49.50



BALL VALVES & ACTUATORS



The AX-NCVB range of electrically automated characterized ball valves are designed specifically for the HVAC market. This characterized ball design provides very high rangeability and excellent equal percentage flow characteristics. The AX-NVCB range of valves are ideal for all automatic temperature control applications using hot or chilled water.

- Establishes a flow coefficient (Kvs) similar to globe valves, eliminating the need for pipe size correction tables when sizing valves
- Provides superior rangeability and equal percentage flow characteristics
 Facilitate the use of smaller, less expensive
- actuators
- Extends valve and actuator service life



Note: Larger sizes up to 80mm available. Contact the Sales Office for more information.

Order Codes	2-Way Ball Valves	List Price
AX-NCVB72015	15mm Screwed brass 2-Way Ball Valve	£60.00
AX-NCVB72020	20mm Screwed brass 2-Way Ball Valve	£76.00
AX-NCVB72025	25mm Screwed brass 2-Way Ball Valve	£77.00
AX-NCVB72032	32mm Screwed brass 2-Way Ball Valve	£108.00
AX-NCVB72040	40mm Screwed brass 2-Way Ball Valve	£125.00
AX-NCVB72050	50mm Screwed brass 2-Way Ball Valve	£187.00
0-1 0-1		
Order Codes	3-Way Ball Valves	List Price
AX-NCVB73015	15mm Screwed brass 3-Way Ball Valve	£63.00
	*	
AX-NCVB73015	15mm Screwed brass 3-Way Ball Valve	£63.00
AX-NCVB73015 AX-NCVB73020	15mm Screwed brass 3-Way Ball Valve 20mm Screwed brass 3-Way Ball Valve	£63.00 £80.00
AX-NCVB73015 AX-NCVB73020 AX-NCVB73025	15mm Screwed brass 3-Way Ball Valve 20mm Screwed brass 3-Way Ball Valve 25mm Screwed brass 3-Way Ball Valve	£63.00 £80.00 £109.00

	SP	ECIF	FICATION	
Body Press	sure:	pressur	(25 bar), meets or exceeds re and rating (EN 12360) ature requirements of ANSI Class anged Valve PN 6	
Size Range	e:	15 to 5	0mm (½" to 2")	
Temperatu	re Range:	-30°C t	-30°C to 115°C at 360 psi for fluids	
Flow Chara	acteristics:	Equal p	Equal percentage / Bypass linear	
Materials:	Body		Brass	
	Ball		Nickel Plated Brass (Stainless Steel optional)	
	Stem		Brass (Stainless Steel optional)	
	Insert		Glass-filled Polymer	
	Stem Seal		EPDM O-rings	
Ball Seals			RTFE seats with EPDM O-rings	
	Mounting E	Bracket	Glass-filled Polymer	

The AX-NEBA Rotary Valve Actuators are especially designed and produced for HVAC systems and fan coil applications. This wide range of Rotary Valve Actuators has been developed to operate and position 2 - 3 way Ball Valves of different sizes.



- 1m cable connection
- Torque 5, 8 AND 10Nm
- Selectable direction of rotation
- 1 Adjustable auxiliary switch (SPDT)



Note: Larger sizes up to 80mm available. Contact the Sales Office for more information.

Order Codes	Damper Actuators - Normal Electric	List Price
AX-NEBA24-05	5Nm - On/Off + Raise/Lower - 24V	£75.00
AX-NEBA24-05S1	5Nm - On/Off + Raise/Lower - 24V + Aux. Switch	£96.00
AX-NEBA230-05	5Nm - On/Off + Raise/Lower - 230V	£77.00
AX-NEBA230-05S1	5Nm - On/Off + Raise/Lower - 230V + Aux Switch	£101.00
AX-NFBM24 2-05	5Nm - 0-10Vdc - 24V	£105.00

Order Codes	Actuators - Spring Return	List Price
AX-NESA24-05	5Nm - On/Off + Raise/Lower - 24V	£116.00
AX-NESA24-05S1	5Nm - On/Off + Raise/Lower - 24V + Aux. Switch	£121.00
AX-NESA230-05	5Nm - On/Off + Raise/Lower - 230V	£116.00
AX-NESA230-05S1	5Nm - On/Off + Raise/Lower - 230V + Aux. Switch	£121.00

SPECIFICATION					
Power Supply:	AC/DC	24V ±15%			
	AC	230V ±10%			
Torque: 5Nm, 8Nm, 10Nm					
Connection: 1m Cable					
Control: 2/3 point or modulating					

BUTTERFLY VALVES & ACTUATORS



A range of Flanged Wafer Butterfly Valves designed to control liquid flow in closed circuit heating or cooling systems, the units feature PN6, PN10 and PN16 flanged connections, and are manufactured to a very high quality.

The units feature three ranges of available actuators, specifically designed for the AX-VB Each range has on/off, Raise/Lower and modulating versions for maximum flexibility.

Order Codes	Butterfly Valves	List Price
AX-VB-025	Butterfly Valve DN25	£196.90
AX-VB-032	Butterfly Valve DN32	£213.40
AX-VB-040	Butterfly Valve DN40	£235.40
AX-VB-050	Butterfly Valve DN50	£265.10
AX-VB-065	Butterfly Valve DN65	£295.90
AX-VB-080	Butterfly Valve DN80	£335.50
AX-VB-100	Butterfly Valve DN100	£359.70
AX-VB-125	Butterfly Valve DN125	£438.90
AX-VB-150	Butterfly Valve DN150	£574.20
AX-VB-200	Butterfly Valve DN200	£849.20
AX-VB-2CF-PN6	2 counter flanges PN6	P.O.A
AX-VB-2CF-PN10	2 counter flanges PN10	P.O.A
AX-VB-2CF-PN16	2 counter flanges PN16	P.O.A

Order Codes	Actuators	List Price					
15nm							
AX-AR30W23F001	On/Off, Raise/Lower Actuator 15nm 230Vac	£289.30					
AX-AR30W23F020	On/Off, Raise/Lower Actuator 15nm 24Vac	£289.30					
AX-AR30W23SF020	Modulating Actuator 15nm 24Vac	£519.20					
	18nm						
AX-ASF122F220	2/3 point Spring Return Actuator 18nm 230V	£346.40					
AX-ASF123F222	2/3 point Spring Return Actuator 18nm 24V	£324.50					
AX-ASF123SF122	Modulating Spring Return Actuator 16nm 24V	£319.00					
	30nm						
AX-A44W2F001	On/Off, Raise/Lower Actuator 30nm 230Vac	£768.90					
AX-A44W2F020	On/Off, Raise/Lower Actuator 30nm 24Vac	£771.10					
AX-A44W2SF001	Modulating Actuator 30nm 24Vac	£959.20					
	Assembly Kits						
AX-VB-0378108001	Assembly Kit DN25-65 for AR30	£34.10					
AX-VB-0378109001	Assembly Kit DN80-100 for AR30	£40.70					
AX-VB-0378110001	Assembly Kit DN25-65 for A44W	£36.30					
AX-VB-0378111001	Assembly Kit DN80-125 for A44W	£38.50					
AX-VB-0378112001	Assembly Kit DN150-200 for A44W	£38.50					
AX-VB-0378113001	Assembly Kit DN25-200 for ASF122	£44.00					

- 16bar shut off pressure
- Cast iron body
- Tight shut off
- PN6, PN10, PN16 flanged connection

	SPE	СΙ	FΙ	CATI	ΟN		
Flow Type:			Iso	lating or re	egulatin	g	
Fluid Temperatu	re:		0 to	+110°C			
Pressure Class:			ΡN	16			
Leakage Rate:			<0.	0001% of	Kvs		
Materials:	Body		Dι	uctile iron			
	Wafer		St	ainless St	eel		
Code	Nominal	K	vs	Weight	D	elta P M	ax
	Width	m3	/hr	Kgs	ASF	AR30	A44
AX-VB-025	DN25	3	6	1.00	10	10	10
AX-VB-032	DN32	4	0	1.15	10	10	10
AX-VB-040	DN40	5	0	2.75	10	10	16
AX-VB-050	DN50	85		3.05	10	10	16
AX-VB-065	DN65	2	15	4.05	7	7	16
AX-VB-080	DN80	42	20	4.30	4	4	10
AX-VB-100	DN100	80	00	4.85	2	2	10
AX-VB-125	DN125	10	10	7.20			6
AX-VB-150	DN150	21	00	9.50			5
AX-VB-200	DN200	40	00	12.00			3

- Assembly kits for all actuators
- Manual Butterfly adjustment possible On/off, Raise/Lower and modulating versions
- Up to 30nm actuation

SPECIFICATION				
Type:	AX-ASF	Spring return to 100mm		
	AX-AR30	Non spring return to 100mm		
	AX-A44W	Non spring return to 200mm		
Torque:	AR30W	15nm		
	A44W	30nm		
	ASF	18nm (modulating 16nm)		

A range of Wafer Type Butterfly Valves as used in heating and cooling water systems at a very competitive price point.



Order Codes	Butterfly Valves	List Price
AX-405-WEHT-50	50mm Wafer Type Butterfly Valves	£165.00
AX-405-WEHT-65	65mm Wafer Type Butterfly Valves	£180.00
AX-405-WEHT-80	80mm Wafer Type Butterfly Valves	£200.00
AX-405-WEHT-100	100mm Wafer Type Butterfly Valves	£240.00
AX-405-WEHT-125	125mm Wafer Type Butterfly Valves	£275.00
AX-405-WEHT-150	150mm Wafer Type Butterfly Valves	£315.00

Order Codes	Actuators for up to 100mm	List Price			
AX-NEAA24-16	24Vac - 16nm - On/Off & Raise/Lower	£99.00			
AX-NEAA230-16	230Vac - 16nm - On/Off & Raise/Lower	£99.00			
AX-NEAA24-16S	24Vac - 16nm - On/Off & Raise/Lower + Aux Switch	£115.00			
AX-NEAA230-16S	230Vac - 16nm - On/Off & Raise/Lower + Aux Switch	£115.00			
AX-NEAM24-1-16	24Vac - 16nm - 0-10Vdc Modulating	£135.00			
	Actuators for 125 to 150mm				
AX-NEAA24-32	24Vac - 32nm - On/Off & Raise/Lower	£210.00			
AX-NEAA230-32	230Vac - 32nm - On/Off & Raise/Lower	£210.00			
AX-NEAA24-32S	24Vac - 32nm - On/Off & Raise/Lower + Aux Switch	£220.00			
AX-NEAA230-32S	230Vac - 32nm - On/Off & Raise/Lower + Aux Switch	£220.00			
AX-NEAM24-1-32	24Vac - 32nm - 0-10Vdc Modulating	£245.00			

- 6Bar max working pressure Pn10, Pn16, ANSI 150 Flanged connection Cast iron body
- Tight shut off

SPECIFICATION					
Leakage:		Tight shut off up to 100mm. For tight shut off for 125mm - 150mm use 32Nm motor			
Fluid Temperatu	re:	-40 to +120°C			
Max Working Pressure: 6Bar		6Bar			
Flanges to Suit:		Pn10, F	Pn10, Pn16, ANSI 150		
Material:	Body		Nodular Iron GGG50		
	Shaft		Stainless Steel (AISI420)		
	Disc		Stainless Steel 1.4408 (AISI316)		
	Seat		EPDM		



GAS SOI FNOID VAI VES

AX-VGS-GNC-x

GAS SOLENOID VALVES - AUTO RESET

A range of two port, two position, Auto Reset Gas Solenoid Valves for use in emergency shut-off applications. The valves are normally closed units with Buna seal as standard.

FEATURES

- 230Vac as standard, other voltages available
- Buna seals as standard (others available)
- Includes connection





Note: Please contact the sales office for 24V or 12V versions. Screwed Gas Solenoid Valves - Auto reset If 24Vac/dc coil is required, change 8 to 4 in the order code If 12Vac/dc coil is required, change 8 to 2 in the order code

Order Codes		List Price
AX-VGS-CPI	CPI For all Gas Solenoid Valves	£50.00
AX-VGS-GNC-815	1/2" BSP Gas Solenoid Valve, 230Vac coil	£94.00
AX-VGS-GNC-820	3/4" BSP Gas Solenoid Valve, 230Vac coil	£126.00
AX-VGS-GNC-825	1" BSP Gas Solenoid Valve, 230Vac coil	£141.00
AX-VGS-GNC-832	1 1/4" BSP Gas Solenoid Valve, 230Vac coil	£222.00
AX-VGS-GNC-840	1 1/2" BSP Gas Solenoid Valve, 230Vac coil	£230.00
AX-VGS-GNC-850	2" BSP Gas Solenoid Valve, 230Vac coil	£300.00

Flanged Gas Solenoid Valves - Auto reset If 24Vac/dc coil is required, change 8 to 4 in the order code If 12Vac/dc coil is required, change 8 to 2 in the order code

Order Codes		List Price
AX-VGS-GNC-865	2 1/2" Flanged Gas Solenoid Valve, 230Vac coil	£625.00
AX-VGS-GNC-880	3" Flanged Gas Solenoid Valve, 230Vac coil	£695.00
AX-VGS-GNC-8100	4" Flanged Gas Solenoid Valve, 230Vac coil	£1275.00
AX-VGS-GNC-8125	5" Flanged Gas Solenoid Valve, 230Vac coil	£2495.00
AX-VGS-GNC-8150	6" Flanged Gas Solenoid Valve, 230Vac coil	£2650.00

SPECIFICATION				
Power Supply:	AX-GNC-8xx	230Vac @ 50Hz +10 -15%		
	AX-GNC-4xx	24Vac/dc @ 50Hz ±10%		
	AX-GNC-2xx	12Vac/dc @ 50Hz ±10%		
Materials:	Body	Die cast Aluminium		
	Seals	NBR (UNI 4916-74)		
	Pressure Spring	AISI 302 Steel		
	Plug	Chromium plated Fe 37 Steel		
Connection:	15 to 50mm	DN (BSP) female threads		
	65 to 150mm	Flanged PN 16		
Reset:		Auto		
Protection:		IP54		
Operation:		Normally closed		
Response Time	:	< 1 sec		
Electrical Conn	ection:	PG11		
Coil Temperatu	re:	70°C approx		
Ambient Tempe	erature Range:	-15 to +60°C		

AX-VGS-GRC-x

GAS SOLENOID VALVES - MANUAL RESET

A range of two port, two position, Manual Reset Gas Solenoid Valves for use in emergency shut-off applications. The valves are normally closed units with Buna seals as standard.

FEATURES

- 230Vac as standard, other voltages available
- Buna seals as standard (others available)
- Includes connection





Note: Please contact the sales office for 24V or 12V versions. Screwed Gas Solenoid Valves - Manual reset If 24Vac/dc coil is required, change 8 to 4 in the order code If 12Vac/dc coil is required, change 8 to 2 in the order code

Order Codes		List Price
AX-VGS-GRC-820	3/4" BSP Gas Solenoid Valve, 230Vac coil	£126.00
AX-VGS-GRC-825	1" BSP Gas Solenoid Valve, 230Vac coil	£141.00
AX-VGS-GRC-832	1 1/4" BSP Gas Solenoid Valve, 230Vac coil	£222.00
AX-VGS-GRC-840	1 1/2" BSP Gas Solenoid Valve, 230Vac coil	£230.00
AX-VGS-GRC-850	2" BSP Gas Solenoid Valve, 230Vac coil	£300.00
AX-VGS-GRC-865	2 1/2" BSP Gas Solenoid Valve, 230Vac coil	£625.00
AX-VGS-GRC-880	3" BSP Gas Solenoid Valve, 230Vac coil	£695.00

Flanged Gas Solenoid Valves - Manual reset If 24Vac/dc coil is required, change 8 to 4 in the order code If 12Vac/dc coil is required, change 8 to 2 in the order code

Order Codes		List Price
AX-VGS-GRCF-865	2 1/2" Flanged Gas Solenoid Valve, 230Vac coil	£685.00
AX-VGS-GRCF-880	3" Flanged Gas Solenoid Valve, 230Vac coil	£740.00
AX-VGS-GRCF-8100	4" Flanged Gas Solenoid Valve, 230Vac coil	£1220.00

SPECIFICATION				
Power Supply:	AX-GRC-8xx	230Vac @ 50Hz +10 -15%		
	AX-GRC-4xx	24Vac/dc @ 50Hz ±10%		
	AX-GRC-2xx	12Vac/dc @ 50Hz ±10%		
Materials:	Body	Die cast Aluminium		
	Seals	NBR (UNI 4916-74)		
	Pressure Spring	AISI 302 Steel		
	Plug	Chromium plated Fe 37 Steel		
Connection:	15 to 50mm	DN (BSP) female threads		
		Flanged PN 16		
Reset:		Manual		
Protection:		IP54		
Operation:		Normally closed		
Response Time:		< 1 sec		
Electrical Connection:		PG11		
Coil Temperature:		70°C approx		
Ambient Temp	erature Range:	-15 to +60°C		

GENERAL PURPOSE SOLENOID VALVES

AX-VS-PU / NOPU

SOLENOID VALVES - SCREWED - GENERAL PURPOSE

A range of two port, two position, servo assisted screwed Solenoid Valves for use in standard applications. The valves are available either as normally open or normally closed units with a Buna seal as standard.

FEATURES

- Buna seals as standard
- Includes MPM plug connection
- IP65 connection housing
- BSP Thread
- 24Vac as standard, other voltages available



Note: Includes the coil and MPM plug. Viton and EPDM seals available at additional cost.

Order Codes	Please Add -24Vac, -230Vac, or 24Vdc suffix	List Price		
AX-VS-PU22503-V	3/8" Solenoid Valve, Buna seal, normally closed	£53.00		
AX-VS-PU22504A-V	1/2" Solenoid Valve, Buna seal, normally closed	£54.00		
AX-VS-PU22506A-V	3/4" Solenoid Valve, Buna seal, normally closed	£79.00		
AX-VS-PU22508A-V	1" Solenoid Valve, Buna seal, normally closed	£95.00		
AX-VS-PU22512A-V	1 1/4" Solenoid Valve, Buna seal, normally closed	£182.00		
AX-VS-PU22514A-V	1 1/2" Solenoid Valve, Buna seal, normally closed	£183.00		
AX-VS-PU22520A-V	2" Solenoid Valve, Buna seal, normally closed	£257.00		
AX-VS-PU22524A-V	2 1/2" Solenoid Valve, Buna seal, normally closed	£1035.00		
AX-VS-PU22528A-V	3" Solenoid valve, Buna seals, normally closed	£1075.00		
	Normally Open			
AX-VS-NOPU22503-V	3/8" Solenoid Valve, Buna seal, normally open	£83.00		
AX-VS-NOPU22504A-V	1/2" Solenoid Valve, Buna seal, normally open	£84.00		
AX-VS-NOPU22506A-V	3/4" Solenoid Valve, Buna seal, normally open	£109.00		
AX-VS-NOPU22508A-V	1" Solenoid Valve, Buna seal, normally open	£125.00		
AX-VS-NOPU22512A-V	1 1/4" Solenoid Valve, Buna seal, normally open	£212.00		
AX-VS-NOPU22514A-V	1 1/2" Solenoid Valve, Buna seal, normally open	£213.00		
AX-VS-NOPU22520A-V	2" Solenoid Valve, Buna seal, normally open	£287.00		
AX-VS-NOPU22524A-V	2 1/2" Solenoid Valve, Buna seal, normally open	£1065.00		
AX-VS-NOPU22528A-V	3" Solenoid valve, Buna seals, normally open	£1105.00		

S	PECIF	ICATION
Power Supply:	-24Vac	24Vac @ 50/60Hz ±10%
	-230Vac	230Vac @ 50/60Hz ±10%
	-24Vdc	24Vdc +10 - 5%
Operation:	PU	Normally closed
	NOPU	Normally open
Seals:	-A	Buna
	-V	VITON
	-E	EPDM
Liquid Temperature:	Buna	-10 to +80°C
	Viton	0 to 130°C
	EPDM	0 to 160°C
Power Consumption:		17VA max
Pressure Range:		0.5 to 15bar
Media:		Air, water, gas, light oil
Electrical Connection	:	MPM DIN 43650A Connector
Ambient Range:		-20 to +60°C

AY-VS-REE / NOREE

SOLENOID VALVES - FLANGED - GENERAL PURPOSE

A range of two port, two position auto reset flanged Solenoid Valves for use in standard applications. The valves are available either as normally open or normally closed units with Buna seals as standard.

FEATURES

- 230Vac as standard, other voltages available
- Buna seals as standard (other options available)
- Includes MPM plug connection Flanged connection PN16 RF
- IP65 connection housing



Note: Order Codes shown are all with Buna seals, FKM seals available at additional cost.

Order Codes	(PN16)	(mm)	(1/min)	Price	
Normally Closed					
AX-VS-BFE-50B-230	2"	50	1250	£610.00	
AX-VS-BFE-65B-230	2 1/2"	£65.00	1750	£770.00	
AX-VS-BFE-80B-230	3"	80	2300	£909.00	
AX-VS-BFE-100B-230	4"	100	4300	£1089.00	
AX-VS-BFE-125B-230	5"	125	6500	£1533.00	
AX-VS-BFE-150B-230	6"	150	9100	£2026.00	
AX-VS-BFE-200B-230	8"	200	£16700.00	£4575.00	
AX-VS-BFE-250B-230	10"	250	26500	£9145.00	
AX-VS-BFE-300B-230	12"	300	36500	£11135.00	
		y Open			
AX-VS-NOBFE-50B-230	2"	50	£1250.00	£683.00	
AX-VS-NOBFE-65B-230	2 1/2"	65	1750	£843.00	
AX-VS-NOBFE-80B-230	3"	80	2300	£982.00	
AX-VS-NOBFE-100B-230	4"	100	£4300.00	£1162.00	
AX-VS-NOBFE-125B-230	5"	125	6500	£1606.00	
AX-VS-NOBFE-150B-230	6"	150	9100	£2100.00	
AX-VS-NOBFE-200B-230	8"	200	16700	£4645.00	
AX-VS-NOBFE-250B-230	10"	250	26500	£9216.00	
AX-VS-NOBFE-300B-230	12"	300	36500	£11206.00	

SPECIFICATION				
Power Supply:	-230	230Vac @ 50/60Hz ±10%		
	-24	24Vac @ 50Hz ±10%		
	-12	12/24Vdc ±10%		
Operation:	BFE	Normally closed		
	NOBFE	Normally open		
Power Consumption:	AC	Inrush 43VA, holding 26VA		
	DC	19W		
Seals:	-В	Buna		
	-F	FKM		
Liquid Temperature:	Buna	-5 to +90°C		
	FKM	0 to 100°C		
Media:		Air, water, gas, light oil		
Pressure Limit:		16bar		
Ambient Range:		-10 to +60°C		

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99



DAMPER ACTUATORS



Specifically designed and produced for applications in HVAC systems, the AX-NEA range of Damper Actuators are a particularly cost effective solution with a variety of options. These standard Damper Actuators have been developed to operate and position air dampers of different sizes.

- Flying lead connection
- Selectable direction of rotation
- Adjustable angle of rotation
- Raise / Lower or On/Off on the same unit

Order Codes	5Nm with flying lead	List Price
AX-NEAA24-05	On/Off & Raise/Lower - 24V	£57.00
AX-NEAA24-05S1	On/Off & Raise/Lower - 24V - Aux. Switch	£72.00
AX-NEAA230-05	On/Off & Raise/Lower - 230V	£57.00
AX-NEAA230-05S1	On/Off & Raise/Lower - 230V - Aux. Switch	£72.00
AX-NEAM24.2-05	0-10Vdc Damper Actuator 24V	£77.00
Order Codes	10Nm with flying lead	List Price
AX-NEAA24-10	On/Off & Raise/Lower - 24V	£78.00
AX-NEAA24-10S1	On/Off & Raise/Lower - 24V - Aux Switch	£96.00
AX-NEAA230-10	On/Off & Raise/Lower - 230V	£80.00
AX-NEAA230-10S1	On/Off & Raise/Lower - 230V - Aux. Switch	£96.00
AX-NEAM24.1-10	0-10Vdc Damper Actuator 24V	£103.00
AX-NEAM24.1-10S	0-10Vdc Damper Actuator 24V Aux. Switch	£130.00
Order Codes	20Nm with flying lead	List Price
AX-NEAA24-20	On/Off & Raise/Lower - 24V	£140.00
AX-NEAA24-20S1	On/Off & Raise/Lower - 24V - Aux Switch	£149.00
AX-NEAA230-20	On/Off & Raise/Lower - 230V	£140.00
AX-NEAA230-20S1	On/Off & Raise/Lower - 230V - Aux. Switch	£149.00
AX-NEAM24.2.20	0-10Vdc Damper Actuator 24V	£180.00
AX-NEAM24.2-20S	0-10Vdc Damper Actuator 24V Aux. Switch	£193.00
Order Codes	24Nm with flying lead	List Price
AX-NEAA24-24	On/Off & Raise/Lower - 24V	£124.00
AX-NEAA24-24S1	On/Off & Raise/Lower - 24V - Aux Switch	£143.00
AX-NEAA230-24	On/Off & Raise/Lower - 230V	£124.00
AX-NEAA230-24S1	On/Off & Raise/Lower - 230V - Aux. Switch	£143.00
AX-NEAM24.1.24	0-10Vdc Damper Actuator 24V	£163.00
AX-NEAM24.1-24S	0-10Vdc Damper Actuator 24V Aux. Switch	£182.00

SPECIFICATION			
Power Supply:	AC/DC	24V	
	AC	230V	
Torque:		5Nm, 10Nm, 20Nm, 24Nm	
Connection:		1m Flying Lead Cable	
Potentiometer:		10kΩ	
Shaft Length:		40mm Minimum	
Control:		On/Off, Raise/Lower or 0-10Vdc	



Specifcally designed and produced for applications in HVAC systems, the AX-NEA range of Damper Actuators are a particularly cost effective solution with a variety of options. These standard damper actuators have been developed to operate and position air dampers of different sizes.

Order Codes	8Nm with terminals	List Price
AX-NEAA24-08	On/Off & Raise/Lower - 24V	£88.00
AX-NEAA24-08S1	On/Off & Raise/Lower - 24V - Aux Switch	£98.00
AX-NEAA230-08	On/Off & Raise/Lower - 230V	£88.00
AX-NEAA230-08S1	On/Off & Raise/Lower - 230V - Aux. Switch	£98.00
AX-NEAM24.1-08	0-10Vdc Damper Actuator 24V	£102.00
AX-NEAM24.1-08S	0-10Vdc Damper Actuator 24V Aux. Switch	£120.00
Order Codes	16Nm with terminals	List Price
AX-NEAA24-16	On/Off & Raise/Lower - 24V	£90.50
AX-NEAA24-16S1	On/Off & Raise/Lower - 24V - Aux Switch	£101.00
AX-NEAA230-16	On/Off & Raise/Lower - 230V	£90.50
AX-NEAA230-16S1	On/Off & Raise/Lower - 230V - Aux. Switch	£101.00
AX-NEAM24.1-16	0-10Vdc Damper Actuator 24V	£120.00
AX-NEAM24.1-16S	0-10Vdc Damper Actuator 24V Aux. Switch	£140.00
Order Codes	32Nm with terminals	List Price
AX-NEAA24-32	On/Off & Raise/Lower - 24V	£191.00
AX-NEAA24-32S1	On/Off & Raise/Lower - 24V - Aux Switch	£225.00
AX-NEAA230-32	On/Off & Raise/Lower - 230V	£191.00
AX-NEAA230-32S1	On/Off & Raise/Lower - 230V - Aux. Switch	£225.00

SPECIFICATION			
Power Supply:	AC/DC	24V	
	AC	230V	
Torque:		8Nm, 16Nm, 32Nm	
Connection:		Terminal	
Potentiometer:		1kΩ / 10kΩ	
Shaft Length:		50mm Minimum	
Control:		On/Off, Raise/Lower or 0-10Vdc	

- Terminal connection Selectable direction of rotation
- Adjustable angle of rotation
- Raise / Lower or On/Off on the same unit

0-10Vdc Damper Actuator 24V Aux. Switch

0-10Vdc Damper Actuator 24V

AX-NEAM24.1-32

AX-NEAM24.1-32S

£224.00

DAMPER ACTUATORS

AX-DASMx

DAMPER ACTUATORS - 5NM & 10NM - HIGH QUALITY, QUIET OPERATION



The AX-DASM range of Damper Actuators are Swiss-made and of a very high quality. Suitable for the actuation of air, shut-off and restrictor dampers and louvres, these Damper Actuators are for controllers with either an on/off or Raise/Lower output and offer very quiet operation. This range offers 5NM and 10NM versions.

FFATURES

- Constant running time, independent of load
- Very quiet operation >30db(A)
- On/off and Raise/Lower control in the same unit
- Fast running version available 30 secs
 0-10Vdc proportional version available
- Automatic shutoff at endstop
- Simple manual positioning via red button
- Compact size

Order Codes	5Nm Damper Actuators	List Price
AX-DASM105F100	On/Off + Raise / Lower - 230Vac - 30 secs	£92.40
AX-DASM105F120	On/Off + Raise / Lower - 230Vac - 120 secs	£83.60
AX-DASM105F122	On/Off + Raise / Lower - 24Vac - 120 secs	£83.60
AX-DASM105SF132	0-10Vdc - 24Vac - 35/60/120 secs	£106.70
Order Codes	10Nm Damper Actuators	List Price
AX-DASM115F120	On/Off + Raise / Lower - 230Vac - 120 secs	£97.90
AX-DASM115F122	On/Off + Raise / Lower - 24Vac - 120 secs	£97.90

AX-DASM115SF132 0-10Vdc - 24Vac - 60/120 secs

	SPECI	FICATION
Power Supply:	F122	24Vac/dc ±20%
	F100/120	230Vac ±15%
	SF	24Vac/dc only ±20%
Output:	105	5nm
	115	10nm
Output Modes:	F	On/Off or Raise/Lower
	SF	Proportional 0 to 10Vdc
Running Time:	F100	30secs ±5% for 90° rotation
	F120/122	120secs ±5% for 90° rotation
	105SF	35/60/120secs switch selectable
	115SF	60/120secs switch selectable
Angle of Rotatio	n:	90° max 95°
Spindle Size:		Circular 8 to 16mm diameter
Protection:		IP54
Weight:		700gms approx
Country of Origin:		Switzerland

AY-DASMy

DAMPER ACTUATORS – 15NM, 18NM & 30NM – HIGH QUALITY, QUIET OPERATION

£128.70



The AX-DASM range of Damper Actuators are Swiss-made and of a very high quality. Suitable for the actuation of air, shut-off and restrictor dampers and louvres, these Damper Actuators are for controllers with either an on/off or Raise/Lower output and offer very quiet operation. This range offers 15NM, 18NM and 30NM

FEATURES

- Constant running time, independent of load
- Very quiet operation >30db(A)
- On/off and Raise/Lower control in the same unit
- Fast running version available 30 secs
- 0-10Vdc proportional version available
- Automatic shutoff at endstop
- Simple manual positioning via red button
- Compact size

15Nm Damper Actuators	List Price
0-10Vdc - 24Vac - 60/120 secs	£190.00
18Nm Damper Actuators	List Price
On/Off + Raise / Lower - 230Vac - 120 secs	£136.40
On/Off + Raise / Lower - 24Vac - 120 secs	£136.40
30Nm Damper Actuators	List Price
On/Off + Raise / Lower - 230Vac - 120/240 secs	£201.30
0-10Vdc - 24Vac - 120/240 secs	£223.30
	0-10Vdc - 24Vac - 60/120 secs 18Nm Damper Actuators On/Off + Raise / Lower - 230Vac - 120 secs On/Off + Raise / Lower - 24Vac - 120 secs 30Nm Damper Actuators On/Off + Raise / Lower - 230Vac - 120/240 secs

SPECIFICATION				
Power Supply:	F122	24Vac/dc ±20%		
	F120/130	230Vac ±15%		
	SF	24Vac/dc only ±20%		
Output:	124	18nm (124SF = 15nm)		
	115	30nm		
Output Modes:	F	On/Off or Raise/Lower		
	SF	Proportional 0 to 10Vdc		
Running Time:	F120/122	120secs ±5% for 90° rotation		
	SF122	60/120secs ±5% for 90° rotation		
	F130/132	120/240secs switch selectable		
Angle of Rotatio	n:	90° max 95°		
Spindle Size:		Circular 12 to 20mm diameter		
Protection:		IP54		
Weight:		1600gms approx		
Country of Origin:		Switzerland		



FAIL-SAFE DAMPER ACTUATORS



The AX-FSA range of Damper Actuators with electronic fail-safe (EFS) function are designed and produced for extended functions in HVAC systems, fan coil and laboratory applications. Electronic fail-safe (EFS) is able to manage short voltage interruptions for a maximum of 4 seconds. In case of longer voltage interruption they will move the dampers or valves if necessary to a pre-defined emergency position (EPS).

- Flying lead connection
- Selectable direction of rotation by switch
- Adjustable angle of rotation (mechanical) Electronic fail-safe function

Order Codes	5Nm Fail-Safe with Flying Lead	List Price
AX-FSAA-24-05	2/3 Point Damper Actuator 24V	£107.00
AX-FSAA-230-05	2/3 Point Damper Actuator 230V	£114.00
AX-FSAM-24.2-05	Modulating Damper Actuator	£143.00

Order Codes	8Nm Fail-Safe with Flying Lead	List Price
AX-FSAA-24-08	2/3 Point Damper Actuator 24V	£133.00
AX-FSAA-24-08S	2/3 Point Damper Actuator 24V c/w axs	£153.00
AX-FSAA-230-08	2/3 Point Damper Actuator 230V	£142.00
AX-FSAA-230-08S	2/3 Point Damper Actuator 230V c/w axs	£163.00
AX-FSAM-24.2-08	Modulating Damper Actuator 24V	£171.00
AX-FSAM-24.2-08S	Modulating Damper Actuator 24V c/w axs	£193.00

SPECIFICATION		
Power Supply:	AC	24V 50/60 Hz
	DC	24V
Torque:		5Nm & 8Nm
Connection:		1m Flying Lead Cable
Control:		2/3 Point or modulating

FAIL-SAFE DAMPER ACTUATORS - 16NM & 24NM



The AX-FSA range of Damper Actuators with electronic fail-safe (EFS) function are designed and produced for extended functions in HVAC systems, fan coil and laboratory applications. Electronic fail-safe (EFS) is able to manage short voltage interruptions for a maximum of 4 seconds. In case of longer voltage interruption they will move the dampers or valves if necessary to a pre-defined emergency position (EPS).

- Terminal connection
- Selectable direction of rotation by switch
- Adjustable angle of rotation (mechanical)
 Electronic fail-safe function

Order Codes	16Nm Fail-Safe with Flying Lead	List Price
AX-FSAA-24-16	2/3 Point Damper Actuator 24V	£186.00
AX-FSAA-24-16S	2/3 Point Damper Actuator 24V c/w axs	£207.00
AX-FSAA-230-16	2/3 Point Damper Actuator 230V	£197.00
AX-FSAA-230-16S	2/3 Point Damper Actuator 230V c/w axs	£217.00
AX-FSAM-24.2-16	Modulating Damper Actuator 24V	£227.00
AX-FSAM-24.2-16S	Modulating Damper Actuator 24V c/w axs	£248.00

Order Codes	24Nm Fail-Safe with Flying Lead	List Price
AX-FSAA-24-24	2/3 Point Damper Actuator 24V	£233.00
AX-FSAA-24-24S	2/3 Point Damper Actuator 24V c/w axs	£254.00
AX-FSAA-230-24	2/3 Point Damper Actuator 230V	£154.00
AX-FSAA-230-24S	2/3 Point Damper Actuator 230V c/w axs	£264.00
AX-FSAM-24.2-24	Modulating Damper Actuator 24V	£283.00
AX-FSAM-24.2-24S	Modulating Damper Actuator 24V c/w axs	£304.00

SPECIFICATION				
Power Supply: AC		24V 50/60 Hz		
	DC	24V		
Torque:		16Nm & 24Nm		
Connection:		1m Flying Lead Cable		
Control:		2/3 Point or modulating		

COMMISSIONING TOOLS & BESPOKE PRODUCTS

Annicom provide bespoke control, and user interface solutions for some of the most prestigous projects on the planet. From Al Rawda Palace, to the Dubai Mall, we provide premium, bespoke solutions for any application.

From proprietary electronics to any conceivable finish with custom engraving in any language, Annicom offers a completely bespoke service from start to finish. This year we are happy to introduce our popular AX-REF-VI commissioning tool to the Product Catalogue.

- **85** Commissioning Tools
- **86** Hotel Controls
- 87 Versatemp Spares & Custom Plates
- 88 Bespoke Designs & OEM Products

OUTPUT

DID YOU KNOW?

We can engrave our user interface products with any language, including Arabic, using our own CNC engraving machinery.

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 **85**



COMMISSIONING TOOLS

AX-REF-VI

ANALOGUE OUTPUT COMMISSIONING TOOL - 0-10VDC & 4-20MA



The Axio AX-REF-VI provides 0-10Vdc and 0-20mA outputs in a switch selectable range. The unit is powered by a 24Vac plug-top PSU, which is included with the unit. A 24Vac fused output is also provided from the unit.

The unit can be used to test valve actuators on the bench top, prior to installation, as well as powering and testing IO modules, Relay modules, and any other 24Vac device that utilises analogue input.

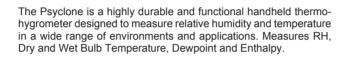
FEATURES

- 230Vac plug top supply included
- 24Vac fused output supplied0-10Vdc output in 1V steps
- 0-10 vac output in 1v steps
 0-20mA output in 2mA steps

		- 1	
		Supply Voltage Output:	24Vac fused internally at 500mA
		Voltage Output:	0-10Vdc (in 1V steps)
Order Codes	List Price	Current Output:	0-20mA (in 2mA steps)
AX-REF-VI	£95.00	Accuracy:	1% at Max. 2% across range

PSYCLONE

HANDHELD THERMO-HYGROMETER



FFATURES

230Vac 50Hz ±15%

- Battery operated
- High accuracy
- Long lasting calibration
- Multiple automatic psychometric calculations

A P P L L C A T L O N S

- HVAC Efficiency monitoring
- Environmental monitoring
- Disaster restoration
- Indoor air quality

SPECIFICATION			
Power:	2 x AA 1.5V batteries		
Probe Humidity Range:	1.0 to 99.0% RH non condensing		
Humidity Precision:	±2% (10 to 9-0% RH @ 25°C)		
Probe Temperature Range:	-20 to +85°C*		
Temperature Accuracy:	±0.5°C (0 to 50°C)		

SURVEYMASTER

DUAL FUNCTION MOISTURE METER

Order Codes

Psyclone Surface Temp Sensor

The SurveyMaster is a highly durable and functional handheld Dual-function Moisture Meter. The unit is designed to help building professionals such as contractors, surveyors, architects and builders accurately access building moisture levels during new build and refurbishing activities.

FEATURES

- Battery operated
- High accuracy
- Search and measure operational modes
- Detects surface and sub surface moisture

1000000
155
\\ <u>\</u>
\\/
0
NEW

Order Codes	List Price
SurveyMaster	£315.00
Hammer Electrode	£187.00
EIFS probe	£60.00

5	SPECIFIC	CATION	
Power:	9V 6F22R bat	tery	
Display 1:	Digital LCD		
Display 2:	60 LED (green - dry, yellow - risk, red - wet) Non-invasive 70 to 999 relative		
Range:			
	Invasive	7.9 to 99% WME	
Depth of Moisture:	Non-invasive	19mm	
	Invasive	12.7mm	

MMS2

MOISTURE, HUMIDITY, WET & DRY BULB TEMPERATURE, DEWPOINT & ENTHALPY

List Price £315.00

£81.00

The MMS2 is a highly durable and functional handheld multi-function tool designed to measure moisture, relative humidity and temperature in a wide range of environments and applications. Measures Moisture, RH, Dry and Wet Bulb Temperature, Dewpoint, Enthalpy and has datalogging facilities.

FFATURES

- Battery operated
- High accuracy
- Search and measure operational modes
- Multiple automatic psychometric calculations



Order Codes	List Price
MMS2 combined with shortstick in pouch	£902.00
MMS2 combined with shortstick + accessories	£1127.00
Surface Temp Sensor	£81.00
Humidity Box & Extension Lead	£90.00
Humidity Sleeves 75 x 12 diameter pack 20	£48.00
Hammer Electrode	£187.00
EIFS probe	£60.00

SPECIFICATION					
Power:	9V 6F22R battery				
Display 1:	Digital LCD				
Display 2:	60 LED (green - dry, yellow - risk, red - wet)				
Range:	Non-invasive 70 to 999 relative				
	Invasive 7.9 to 99% WME				
Probe Humidity Range	obe Humidity Range: 1.0 to 99.0% RH non condensing				
Humidity Precision: ±2% (10 to 90% RH @ 25°C)					

COMMISSIONING TOOLS & BESPOKE PRODUCTS

HOTEL CONTROLS

AX-DRC-1



This Compact Hotel Room Controller is mounted on a brass or stainless steel single gang plate. The digital display gives a clear indication of temperature and Setpoint. The unit has an analogue output of heating or cooling and the Setpoint and has a Setback based on a key card access system.

- Energy-saving function
- Intuitive user interface
- Fits on a standard single gang patress
- Accurate temperature control

	Operating Voltage:		24Vac 50Hz	
	Standard Control T	emperature:	15 to 30°C	
	Standard Setback	Setting:	14°C	
L: (D:	Output:	Htg/Clg	0-10Vdc	
List Price	Setpoint:		0-10Vdc	
£POA	Fan Speed Relays		3 x 240Vac 5A (res)	
	List Price	Standard Control T Standard Setback : Output: Setpoint:	Standard Setback Setting: Output: Htg/Clg Setpoint:	Standard Control Temperature: 15 to 30°C Standard Setback Setting: 14°C Output: Htg/Clg Setpoint: 0-10Vdc

AX-DRC-2

This Room Digital Controller is a two part control system for terminal unit application. The digital display gives a clear indication of temperature and Setpoint. The unit is designed to fit on a two gang back box and has a separate relay unit.

Order Codes AX-DRC-1

- Energy-saving function
- Intuitive user interface
- Fits on a standard 2-gang patress
- Accurate temperature control

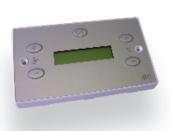


Order Codes		List Price
AX-DRC-2	Hotel Room Digital Temperature Controller	£POA

SPECIFICATION			
Operating Voltage:	Control box	220/240Vac 50Hz	
	User interface	24Vdc	
Standard Control Temperature:	20 to 24°C		
Standard Setback Setting:	14°C		
Fan Speed Relays: 3 x 240Vac 5A (res)		(res)	

CDECLELCATION

AX-DRC-3



The Axio digital room controller is a temperature controller designed to blend with many hotel interiors. The two line LCD display gives the user a clear read-out of Temperature, Setpoint and Fan Speed and the intuitive controls make it usable without instruction making it ideal for use in applications such as hotel rooms. Plates can be engraved to suit any brand or chain.

The digital room controller features a set of volt free contacts allowing the unit to be remotely switched by a time programme or integrated into a building management system.

Order Codes		List Price
AX-DRC-3	Hotel Room Digital Temperature Controller	£PO4

- On/Off Switch
- Temperature and Setpoint Adjustment
- Temperature and Setpoint Display
- Fan Speed Control and Display
- Can be customised in-house to limit ranges

SPECIFICATION							
Operating Voltage:	Control box	220/240Vac 50Hz					
	User	24Vdc					
Standard Control Temperature:	20 to 24°C						
Standard Setback Setting:	14°C						
Fan Speed Relays:	3 x 240Vac 5A (res)						

AX-DRC-4

This Room Digital Controller is a two part control system for terminal unit application. The digital display gives a clear indication of temperature and Setpoint.



- **Energy-saving function**
- Intuitive user interface
- Fits on a standard 2-gang patress
- Accurate temperature control

\$ 3 m	
Secretary Secretary	SECTION ASSESSED.

Order Codes		List Price
AX-DRC-4	Hotel Room Digital Temperature Controller	£POA

Note: All of the AX-DRC range can be tailored to meet your requirements. Prices depend on quantity, specification & design.

Standard Control Temperature:	20 to 24°C	
Standard Setback Setting:	14°C	
Fan Speed Relays:	3 x 240Vac 5A (res)	

+44 (0)1420 48 77 88 +44 (0)1420 48 77 99



VERSATEMP SPARES & CUSTOM PLATES

ASS5 / ASS6 / MLD

Annicom designs and manufactures a number of Electronic Assemblies for Clivet Versatemp Units. These parts are available directly from Annicom. Telephone the technical support department for assistance in choosing the correct part.

Order Codes		List Price
ASS539601	Versatemp series 3 interface board	£88.00
ASS600906	Versatemp series 3 power board	£120.20
ASS606404	Versatemp series 3 controller	£155.50
ASS51830F	Versatemp series 4 power board	£185.50
ASS661701	Versatemp series 4 controller assembly	£188.50
ASS661802	Versatemp series 4A power board	£164.00
ASS644202	Versatemp series 4A wall mount control (white)	£182.00
ASS644102	Versatemp series 4A wall mount control (grey)	£182.00
ASS657301	Versatemp series 4A controller (grey bezel)	£127.60
MLD001001	Versatemp plastic moulding bezel only (grey)	£32.00

CUSTOM PLATES SINGLE OR DOUBLE GANG, CUSTOM SIZES, FINISHES & ENGRAVING

Annicom's in-house design team is able to provide solutions to meet exact customer requirements. Our long-established manufacturing facility includes Surface Mounting, CNC Machining, and Computerised Engraving.

Products Include:

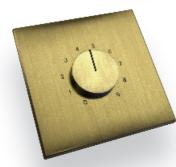
- Temperature Sensors, Setpoint Adjustment & Displays
- Single & Double Gang Plates and Backboxes
- Custom size Plates & Backboxes
- Specialist finishes for Hospitals, Operating Theatres and Clean Rooms
- Custom Setpoint Controllers for Hotels & Palaces
- Many Metals, Finishes, Pantone and Ral Colours available

Illustrated is a small selection from our design and manufacture portfolio.











COMMISSIONING TOOLS & BESPOKE PRODUCTS

BESPOKE DESIGNS & OEM PRODUCTS

Annicom's primary business is the design and manufacture of a wide range of Mechanical and Electronic Controls and Control Solutions. Our OEM service is used by many internationally respected HVAC, BMS and Industrial Manufacturing and Control Companies.

Some of the companies Annicom has fostered lasting support relationships with:

- Siemens
- Honeywell
- Johnson Controls
- Carrier
- Trox
- Clivet

Our application of forward thinking solutions, modern manufacturing techniques and stringent quality control means that Annicom is often the first choice for Bespoke Products and OEM solutions.

Latest Designs Include:

- Custom Package Unit Controller
- MRI Audio Amplifier System
- Industrial Bed Pan Steriliser
- Hospital & Operating Theatre Display Units
- CO2 Cooldesk Controls
- Pressure Dependent Controls
- Relative Humidity Sensor with Proportional Resistive Output
- Autochangeover Pump and Fan Controls
- Pilot Valve for Bellows Systems

Annicom is also able to offer modifications of both software and hardware to many of our existing products. We can design displays, controls and sensing devices specifically for your project, all branded in appropriate packaging.

For more information please contact the Sales Office.

C7 Temperature Control System The C7 is a high-accuracy temperature control system for Industrial, Chemical and Pharmaceutical applications. The feature-rich Display Interface allows for careful calibration and adjustment of many parameters.



MRI Audio Amplifier System

This system allows headphones to be used whilst inside a Magnetic Resonance Imaging Chamber. The headset is completely MR safe. The amplifier provides ease of communication with patients whilst in the chamber, and their own choice of music to be heard to aid relaxation.

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99

METRIC CONVERSION-S & USEFUL INFORMATION

	TI	EMPERATURE	
Unit 1		Unit 2	Equation
°F	\rightarrow	°C	(°F-32) x 0.5556
°C	\rightarrow	Kelvin	°C - 273.15
		LENGTH	
Unit 1		Unit 2	Multiply by
inch	\rightarrow	millimetre	25.4
inch	\rightarrow	centimetre	2.54
inch	\rightarrow	metre	0.0254
foot	\rightarrow	metre	0.3048
yard	\rightarrow	metre	0.9144
		AREA	
Unit 1		Unit 2	Multiply by
square foot	\rightarrow	square metre	0.0929
square inch	\rightarrow	square metre	0.00065
square yard	\rightarrow	square metre	0.83613
		VOLUME	
Unit 1		Unit 2	Multiply by
cubic inch	\rightarrow	cubic metre	1.60E-05
cubic foot	\rightarrow	cubic metre	0.028317
cubic yard	\rightarrow	cubic metre	0.764555
gallon	\rightarrow	litre	4.546
U.S. Gallon	\rightarrow	litre	3.785412
fluid ounce	\rightarrow	millilitre	29.57353
		MASS	
Unit 1		Unit 2	Multiply by
pound	\rightarrow	kilogram	0.45359
ounce	\rightarrow	gramme	28.3495
ton	\rightarrow	tonne	1.01605
U.S. Ton	\rightarrow	tonne	0.907185
		PRESSURE	
Unit 1		Unit 2	Multiply by
p.s.i	\rightarrow	Pascal	6894.757
Pascal	\rightarrow	Millibar	0.01
kPa	\rightarrow	Bar	0.01
Inches WG	\rightarrow	Pascal	249.089
	ENE	ERGY & POWE	R
Unit 1		Unit 2	Multiply by
Btu	\rightarrow	Joule	1055.056

Watt

Unit 2

m3/h

1/s

1/s

1/s

Watt-hours

VOLUMETRIC FLOW

0.293071 745.6999

Multiply by

0.277778

0.075768

0.063090

1.7

	40		A /
) = 1	$\Lambda >$	LA	WW
	VI (V V

Ohms Law defines the relationship between voltage (Volts), current (Amperes) and resistance (Ohms) in an electrical circuit. One Ohm is the resistance value through which one Volt will maintain a current of one Ampere.

Ohms Law is used for calculating an unknown value in a circuit from other known factors, as follows:

V = Voltage, I = Current, R = Resistance

To calculate **R** (Ohms): R = V/ITo calculate **V** (Volts): $V = I \times R$ To calculate I (Amperes): I = V/R

These calculations can be particulary useful where a controller accepts only a voltage input, but there is a requirement to attach a sensor which provides a current output.

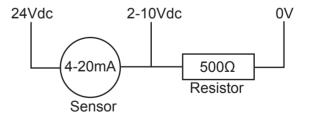
For example, a loop powered 4-20mA sensor running at 24Vdc could be powered up with a resistor as the load. As the current output of the sensor alters, so would the voltage drop across the resistor and providing the correct resistor value is selected a 2-10V output signal can be generated with relative ease.

In this example we would want to see 10V @ 20mA and would calculate the resistor value as follows:

$$R = V/I \rightarrow R = 10/0.02 \rightarrow R = 500\Omega$$

And to check the other end of the scale (4mA):

$$V = I \times R \rightarrow V = 0.004 \times 500 \rightarrow V = 2 \text{ Volts}$$



Btu

Unit 1

cfm

m3/h

g/m

US g/m

Horsepower

BMS TEMPERATURE RESISTANCE CHARTS

	1.8KA1 TAC	2.2K3A1 Johnsons	3K3A1 Alerton	10K3A1 Trend Trane etc	10K4A1 Andover	20K6A1 Honeywell	30K6A1 Drayton	100K6A1 York	
	NTC	NTC	NTC	NTC	NTC	NTC	NTC	NTC	
°C	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	°C
-30	22098	39789	53005	176683	135233	415479	622944	2077394	-30
-20	13107	21839	29092	96974	78931	221297	331876	1106485	-20
-15	10221	16416	21868	72895	61030	163875	245785	819378	-15
-10	8031	12453	16589	55298	47549	122473	183697	612366	-10
-5	6358	9529	12694	42314	37316	92336	138502	461683	-5
0	5070	7353	9795	32650	29490	70203	105305	351017	0
1	4848	6988	9309	31030	28157	66524	99787	332619	1
2	4639	6643	8850	29500	26891	63058	94588	315258	2
3	4439	6318	8416	28054	25689	59792	89689	298959	3
4	4250	6010	8006	26683	24547	56713	85069	283558	4
5	4070	5719	7619	25396	23462	53809	80713	269041	5
6	3897	5444	7252	24173	22430	51068	76604	255337	6
7	3735	5183	6905	23016	21450	48483	72726	242414	7
8	3579	4937	6577	21921	20517	36043	69064	230210	8
9	3430	4703	6266	20685	19631	43739	65608	218688	9
10	3289	4482	5971	19904	18787	41562	62347	207807	10
11	3154	4273	5692	18974	1798	39505	59257	197521	11
12	3026	4075	5428	18092	17219	37561	56346	187803	12
13	2903	3886	5177	17257	16490	35723	53585	178613	13
14	2786	3708	4940	16465	15797	33985	50978	169924	14
15	2674	3539	4714	15714	15136	32341	48511	161702	15
16	2568	3378	4500	15001	14507	30785	46178	153923	16
17	2467	3226	4297	14325	13906	29312	43969	146650	17
18	2370	3081	4105	13623	13334	27918	41877	139588	18
19	2276	2940	3916	13063	12788	26597	39895	132984	19
20	2188	2814	3748	12494	12268	25346	38019	126729	20
21	2100	2690	3583	11943	11771	24160	36240	120729	21
22	2022	2572		11420					22
23			3426		11297	23035	34554	115179	23
-	1945	2460	3277	10923	10845	21970	32955	109850	-
24	1871	2353	3135	10450	10413	20959	31438	104796	24
25	1801	2252	3000	10000	10000	20000	30000	100000	25
26	1733	2156	2871	9572	9506	19089	28635	95449	26
27	1668	2064	2749	9165	9229	18225	27339	91128	27
28	1607	1977	2633	8777	8869	17405	26108	87026	28
29	1547	1893	2522	8408	8525	16625	24939	83129	29
30	1490	1814	2417	8056	8197	15885	23828	79428	30
35	1240	1471	1959	6530	6754	12697	19046	63489	35
40	1037	1199	1598	5325	5594	10211	15317	51058	40
45	871	983.4	1310	4367	4656	8259	12390	41301	45
50	736	810.9	1080	3601	3893	6719	10079	33598	50
55	624	672.2	895.5	2985	3271	5495	8243	27479	55
60	532	560.1	746.2	2487	2760	4518	6777	22593	60
65	455	468.9	624.7	2082	2339	3733	5600	18669	65
70	391	394.5	525.5	1751	1990	3100	4650	15502	70
80	292	282.9	376.9	1256	1458	2167	3251	10837	80
90	221	206.3	274.8	916	1084	1542	2313	7710	90
100	170	152.8	203.6	678.6	817.2	1115	1672	5574	100
110		114.9	153.0	510.1	624.1	818.9	1228	4092	110
120		87.51	116.6	388.6	482.5	609.9	914	3047	120
130		67.52	89.95	300	377.2	460.4	690	2299	130
140		52.72	70.23	234.1	298.1	351.8	527	1756	140
150		41.61	55.44	184.8	238.0	272.0	407	1357	150

The values listed above are for guidance purposes only - please see the manufacturers' data for further information if required.

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 **91**

BMS TEMPERATURE RESISTANCE CHARTS

	SAT1 Satchwell	SEI1 Siebe	STA1 Staefa	PT100a L & S Serck	PT1000a Cylon Honeywell	Ni1000a Sauter	Ni1000/TCR Siemens	
	NTC	NTC	PTC	PTC	PTC	PTC	PTC	
°C	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	°C
-30	9465	10172	1934	88.22	882	842	871.6	-30
-20	9067	9654	2030	92.16	922	893	913.5	-20
-15	8196	9320	2078	94.12	941		934.7	-15
-10	8472	8933	2127	96.09	961	946	956.2	-10
-5	8093	8496	2176	98.04	980		977.9	-5
0	7661	8044	2226	100	1000	1000	1000.0	0
1	7569	7910	2236	100.39	1004		1004.4	1
2	7475	7807	2246	100.78	1008		1008.8	2
3	7379	7702	2256	101.17	1012		1013.3	3
4	7281	7696	2266	101.56	1015		1017.8	4
5	7182	7489	2276	101.95	1019		1022.2	5
6	7082	7381	2286	102.34	1023		1026.7	6
7	6980	7271	2296	102.73	1027		1031.2	7
8	6877	7161	2306	103.12	1031		1035.7	8
9	6772	7050	2316	103.51	1035		1040.2	9
10	6667	6938	2326	103.9	1039	1056	1044.7	10
11	6560	6825	2337	104.29	1043		1049.3	11
12	6453	6712	2347	104.68	1047		1053.8	12
13	6345	6598	2357	105.07	1051		1058.4	13
14	6236	6485	2367	105.46	1054		1063.0	14
15	6126	6370	2377	105.85	1058		1067.6	15
16	6016	6256	2388	106.24	1062		1072.1	16
17	5906	6141	2398	106.63	1066		1076.7	17
18	5795	6028	2408	107.02	1070		1081.3	18
19	5681	5913	2418	107.4	1074		1086.0	19
20	5573	5798	2429	107.79	1078	1112	1090.6	20
21	5469	5686	2439	108.18	1082		1095.3	21
22	5353	5573	2449	108.57	1086		1099.9	22
23	5243	5461	2460	108.96	1090		1104.6	23
24	5134	5349	2470	109.35	1094		1109.3	24
25	5025	5238	2480	109.73	1098		1113.9	25
26	4917	5128	2491	110.12	1102		1119.6	26
27	4809	5019	2501	110.51	1106		1123.4	27
28	4703	4910	2512	110.9	1110		1128.1	28
29	4597	4803	2522	111.28	1113		1132.8	29
30	4492	4696	2532	111.67	1117	1171	1137.6	30
35	3987	4185	2585	113.61	1136		1161.5	35
40	3518	3707	2638	115.54	1155	1230	1185.7	40
45	3089	3271	2692	117.47	1175		1210.2	45
50	2702	2875	2745	119.40	1194	1291	1234.9	50
55	2358	2521	2800	121.32	1213		1260.0	55
60	2056	2206	2855	123.24	1232	1353	1285.4	60
65	1792	1929	2910	125.16	1251		1311.1	65
70	1563	1685	2966	127.07	1271	1417	1337.1	70
80	1193	1287	3079	130.89	1309	1483	1390.1	80
90	921	986	3194	134.7	1347	1549	1444.4	90
100	722	760	3311	138.5	1385	1618	1500.0	100
110	575	690	3430	142.29	1423	1688	1556.9	110
120	466	462	3552	146.06	1461	1760	1615.3	120
130	386	365	3675	149.82	1498	1833	1675.1	130
140	324	290	3801	153.58	1536	1909	1736.4	140
150	278	233	3929	157.31	1573	1909	1799.1	150

The values listed above are for guidance purposes only - please see the manufacturers' data for further information if required.

TEMPERATURE SENSOR COMPATIBILITY CHART

						* P	NO NOT KNO	WN
ELEMENT	OUR	BMS					STRAP	FLYING
	CODE	MANUFACTURER	ROOM	OUTSIDE	DUCT	IMMERSION	ON	LEAD
	1 0000		ATIVE TEMPE				<u> </u>	
10K3A1	-T	AQUATROL	*	*	*	*	*	*
TURSAT	-1	CYLON (NEW)	*	*	*	*	*	
		HONEYWELL	T8120B	T7416A		T7106A	T7044C	T7076D
		TIONLIWELL	101205	T7043E		T7100A	170440	17070D
		JOHNSONS	*	*	T6361V	*	*	*
		OUTHOONS			T636GV-1			
		SATCHWELL	DRT10Kx	DOT10K2	DDT10K1	DWT10K1	*	*
		OMONWELL	DITT TOTAL	DOS10K2	BBTTORT	DST10K1		
		SEACHANGE	SEN/PTR/ROM	SEN/PR/OAT	SEN/PR/DCT	SEN/PR/IMM	SEN/PR/CLP	SEN/PR/FL
		TRANE	*	*	*	*	*	*
		TREND	TE-TS	TE-TO	TE-TD	TE-TI	TE-TC	*
10K4A1	-A	ANDOVER	TTS-S	*	TT-O	TT-I	TT-ST	*
	,	DELTA CONTROLS	*	*	*	*	*	*
		SIEBE	*	*	*	*	*	*
		YORK < 40°C	*	*	*	*	*	*
20K6A1	-H	HONEYWELL	T7460H	AF20	LF20	VF20T	VF20A	KFT20
			T7470A	DAF20		VF20NT	WPF20A	KFT20B
			DRF20-S	T416A-1022		VF20L/LN		DKF20
			RF20			WPF20		
			T4712			T7425A		
IK87A1	-TAC	TAC	*	*	*	*	*	*
2.2K3A1	-2.2K	AMBIFLEX	RTN3060	ETN3060	DTN3060	ITN3060	CTN3060	*
		JOHNSONS	TE-6344P	TE-6343P	TE-6341P/V	TE-6342P	*	*
					TE-634GV1			
3K3A1	-3K	ALERTON	MS1000 series	*	*	*	*	*
			TS1050					
30K6A1	-D	DRAYTON	A701	A702	*	A703	A704	*
50K6A1	-50K	AMBIFLEX	*	*	*	*	*	*
100K6A1	-100K	YORK > 40°C	*	*	*	*	*	*
SAT1	-SAT1	SATCHWELL	DRT, DU	DOT0002	DDT0001	DWT0001	*	DDU
			DUS, DUSF	DOS0002		DST0001		
SAT2	.NA	SATCHWELL	DR	*	DD	DW1202	*	*
						DWS1301		
SAT3	-NA	SATCHWELL	*	*	*	DW1204	*	*
						DWS1202		
SAT4	-NA	SATCHWELL	*	DO2202	*	*	*	*
STA1	-STA1	LANDIS & STAEFA	QAA2040	FW-T1	QAM2140	QAE2140	FA-T1	QAP2040
			FR-T1		FK-T1	FT-T1		FTK-T1
STA2	-NA	LANDIS & STAEFA	FR-T30	FO-T30	FK-T30	FT-T305	*	*
SIE	-SIE	SIEBE	*	*	*	*	*	*
		BARBER COLEMAN	*	*	*	*	*	*
		PO	SITIVE TEMPE	RATURE COE	FFICIENTS - P	TC		
PT100a	-100	SAUTER	EGT430/F011	*	EGT466/F011	*	*	EGT456/F01
					EGT447/F011			
		SERCK	*	*	*	*	*	*
		LANDIS & STAEFA	QAA100	QAC210	FK-TP/200	QAE2110	*	QAP2010
			QAA2010		QAM2110			
PT1000a	-1K	HONEYWELL	T7412	T7416A1014	T7411	T7413	T7414	
		SAUTER	EGT430/F101	EGT401/F101	EGT446/F101	*	EGT411/F101	EGT456/F10
					EGT447/F101			
		SERCK	*	*	*	*	*	*
		SIEBE	TS5811	*	*	*	*	*
		CYLON	*	*	*	*	*	*
Ni1000a	-N1K	SAUTER	EGT330/F101	EGT301/F101	EGT346/F101	EGT346/F101	EGT311/F101	EGT354/F10
					EGT347/F101	EGT347/F101		EGT356/F10
					EGT348/F101	EGT348/F101		
Ni1000/ter	-N1Kk/ter	SIEMENS	QAA24/25/26/27	QAC22	QAM2120	QAE2120	QAD22	QAP21/22
LAN-1	-LAN1	LANDIS & STAEFA	QAA64				QAD26	QAZ21

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 **93**

AIR VELOCITY TO DIFFERENTIAL PRESSURE CHART

Use the chart to determine the required range of the Differential Pressure transmitter.

From the Left hand column (velocity in 1m/sec increments) and the top row (velocity in 0.1m/sec increments) read across and down to find the Differential range required in Pascals.

M/sec	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	0	0.01	0.02	0.05	0.1	0.15	0.22	0.29	0.38	0.49
1	0.60	0.73	0.86	1.01	1.18	1.35	1.54	1.73	1.94	2.17
2	2.40	2.65	2.90	3.17	3.46	3.75	4.06	4.37	4.70	5.05
3	5.4	5.77	6.14	6.53	6.94	7.35	7.78	8.21	8.66	9.13
4	9.6	10.09	10.58	11.09	11.62	12.15	12.70	13.25	13.82	14.41
5	15.00	15.61	16.22	16.85	17.50	18.16	18.82	19.49	20.18	20.89
6	21.60	22.33	23.06	23.81	24.58	25.35	26.14	26.93	27.74	28.57
7	29.40	30.25	31.10	31.97	32.86	33.75	35.66	35.57	36.50	37.45
8	38.40	39.37	40.34	41.33	42.34	43.35	44.38	45.41	46.46	47.53
9	48.6	49.69	50.78	51.89	53.01	54.15	55.30	56.45	57.62	58.81
10	60.00	61.21	62.42	63.65	64.90	66.15	67.42	68.69	69.98	71.29
11	72.60	73.93	75.26	76.61	77.98	79.35	80.74	82.13	83.54	84.97
12	86.40	87.85	89.30	90.77	92.26	93.75	95.26	96.77	98.30	99.85
13	101.40	102.97	104.54	106.13	107.74	109.35	110.98	112.61	114.26	115.93
14	117.60	119.29	120.98	122.69	124.42	126.15	127.90	129.65	131.42	133.21
15	135.00	136.81	138.62	140.45	142.30	144.15	146.02	147.89	149.78	151.69
16	153.60	155.53	157.46	159.41	161.38	163.34	165.34	167.33	169.34	171.39
17	173.40	175.45	177.50	179.57	181.66	183.75	185.86	187.97	190.10	192.25
18	194.40	196.57	198.74	200.93	203.14	205.35	207.58	209.81	212.06	214.33
19	216.60	218.89	221.18	223.49	225.82	228.15	230.50	232.85	235.22	237.61
20	240.00	242.41	244.82	247.25	249.70	252.15	254.62	257.09	259.58	262.09
21	264.60	267.13	269.66	272.21	274.78	277.35	279.94	282.53	285.14	287.77
22	290.40	293.05	295.70	298.37	301.06	303.75	306.46	309.17	311.90	314.65
23	317.40	320.17	322.94	325.73	328.54	331.35	334.18	337.01	339.86	342.73
24	345.60	348.49	351.38	354.29	357.22	360.15	363.10	366.05	369.02	372.01
25	375.00	378.01	381.02	384.05	387.10	390.15	393.22	396.29	399.38	402.49
26	405.60	408.73	411.86	415.01	418.18	421.35	424.54	427.73	430.94	434.17
27	437.40	440.65	433.90	447.17	450.46	453.75	457.06	460.37	463.70	467.05
28	470.40	473.77	477.14	480.53	483.94	487.35	490.78	494.21	497.66	501.13
29	504.60	508.09	511.58	515.09	518.62	522.15	525.70	529.25	532.82	536.41
30	540.00	543.61	547.22	550.85	554.50	558.15	561.82	585.49	569.18	572.89
31	576.60	580.33	584.06	587.81	591.58	595.35	599.14	602.93	606.74	610.57
32	614.40	618.25	622.10	625.97	629.86	633.75	637.66	641.57	645.50	649.45
33	653.40	657.37	661.34	665.33	669.34	673.35	677.38	681.41	685.46	689.53
34	693.60	697.69	701.78	705.89	710.02	714.15	718.30	722.45	726.62	730.81
35	735.00	739.21	743.42	747.65	751.90	756.15	760.42	764.69	768.98	773.29
36	777.60	781.93	786.26	790.61	794.98	799.35	803.74	808.13	812.54	816.97
37	821.40	825.85	830.30	834.77	839.26	843.75	848.26	852.77	857.30	861.85
38	866.40	870.97	875.54	880.13	884.74	889.35	893.98	898.61	903.26	907.93
39	912.60	917.29	921.98	926.69	931.42	936.15	940.90	945.65	950.42	955.21
40	960	964.81	969.62	974.45	979.3	984.15	989.02	993.89	998.78	1003.69

To calculate Velocity from Differential Pressure:-

FREIGHT & DELIVERY CHARGES

DOMESTIC & INTERNATIONAL

ALL the prices in this catalogue are ex works Bordon

Shipments in mainland UK

In mainland U.K. Annicom uses TNT for all its courier deliveries and has standard charges for next day delivery.

Next Day	Up to 15kgs	£9.50
	15 to 25kgs	£12.50
Before Midday	Up to 10kgs	£20.00
Before 9am	Up to 10kgs	£30.00

Up to 10kgs

Consignments over 20kgs will be priced individually on request

Shipments to Eire, Northern Ireland, Hebrides, Shetland, Orkneys and the Isle of Man

£25.00

£27.50 Next Day Up to 10kgs

Shipments Overseas

Saturday AM

If you do not specify your own shipper or Freight Forwarder on your order we will, as standard, use our overseas courier TNT for shipments up to 40kgs.

For shipments over 40kgs we use the most competitive Freight Forwarder from several quotations.

If you have your own courier/forwarder please send details, including telephone number and account number when placing your ordering.

Should you choose to nominate your own freight forwarder a nominal packaging charge may be applied to your own account to contribute towards the packaging material cost.

95 +44 (0)1420 48 77 88 +44 (0)1420 48 77 99

ACCOUNT APPLICATION FORM

Please scan, complete and return to us via email or fax



Full Company Name:	
Registered Number:	No of Years in Business:
VAT Number:	
Trading Address:	Accounts Address:
Purchasing Contact:	Accounts Contact:
Tel: Fax:	Email:
Bank Details:	
Bank: Sort Coo	de: Account No:
Address:	Contact:
	Tel:
	Post Code:
Requested credit limit per month:	
Name:	Position:
Signed:	Date:
Trade Reference: (Companies in dire	ect competition with Annicom Limited will not be accepted)
Name:	Name:
Address:	Address:
Contact:	
Fax:	Fax:

Please note that by requesting an account you accept Annicom's Terms & Conditions, found in this catalogue, and furthermore you accept that you may be subjected to a credit check.

TERMS & CONDITIONS

CONDITIONS OF SALE

The contractual terms between Annicom Limited (hereinafter referred to as the Company) and those purchasing goods from the Company are contained exclusively within these Conditions of Sale. These conditions and the Contract shall be subject to and construed in accordance with the Law of England.

1. Variation

In no circumstances will the Company be bound by any addition to or other variation of these terms whether oral or in writing or unless any such addition or variation is agreed in writing by the Company with express reference to these terms.

2. Acceptance of Orders

A) It shall be the responsibility of the Purchaser to determine the suitability of the goods for any application.

- B) There is no guarantee as to the goods suitability for any specific purpose even if that purpose is known to the Company. In any dispute that may arise liability of the Company for breach of any warranty or obligation either expressed or implied is limited to the value of the goods supplied in any event.
- C) All recommendations and advice given by the Company or the employees or agents of the Company are given without liability on the part of the Company.
- D) Descriptive pictorial or written material issued or published by the Company from time to time relating to goods offered for sale shall not form part of any contract of sale.
- E) The Company shall not be responsible for any loss or damage caused directly or indirectly by the goods or by any act of omission in connection therewith.

3. Execution of Orders

Execution of orders is contingent upon the availability of goods and the absence of any circumstances beyond the control of the Company which hinder or prevent such execution.

4 Returns or Orders

A) Goods properly delivered by Annicom will not be accepted for credit unless Annicom is advised beforehand and agree to accept them back. Such goods returned as not wanted or incorrectly ordered must be sent back carriage paid and will be subject to a 25% handling charge.

B) Written confirmations of telephone orders MUST be endorsed as such. In the event of an order being duplicated through failure to clearly endorse the confirmation, the customer will be liable for the full invoice value of the duplicate order. Such duplicated deliveries will only be accepted for credit subject to a 10% handling charge.

C) Except in special circumstances and by written agreement the Company will not accept cancellation of orders

5. Delivery Delays

Whilst the Company undertakes that every effort will be made to ensure that goods are delivered promptly, no liability will be accepted for delay in dispatch or delivery of the goods.

6. Risk in Goods

The risk in all goods shall pass to the Purchaser on delivery of the goods to the Purchaser

Damage or Shortage

Damage or shortage of goods discovered on delivery must be notified to the Company within seven days. Any claims for damage or shortages that are not notified within this time shall not be accepted by the Company.

7. Returned Goods

Goods will not be accepted for return without the prior agreement of the Company. Please contact Annicom prior to returning goods, you will be issued with a Returns Number that *must* be sent with the goods. Agreed returns must also be accompanied by details giving the reason for return and the date and number of the Company's invoice upon which such goods were charged.

8. Payment of Invoices

All accounts must be paid no later than thirty days from date of invoice. In the event of default the Company reserves the right to charge interest in accordance with The Late Payment of Commercial Debts (Interest) Act 1998, as amended by The Late Payment of Commercial Debts Regulations 2002, at the rate of eight % above current Bank of England Base Rate, at monthly intervals on the overdue portion of the account, plus any reasonable costs incurred in the retrieving the debt and to suspend or cancel the contract in the respect of any undelivered goods.

9. Reservation of Title

Notwithstanding delivery and passing of risk, legal and beneficial ownership of the goods shall remain in the Company until full payment for the goods has been made. Until ownership passes the Purchaser shall hold the goods as bailee for the Company and must keep the goods free from any charge lien or other encumbrance. If the purchaser purports to sell the goods before payment is made to the Company the proceeds of the sale shall belong to the Company until the Company has received payment in full. Where such goods are used, even with loss of identity, the legal ownership to the resultant product shall vest in the Company any proceeds of the sale in respect of goods unused or resultant products shall be received by the Purchaser as agents fro the Company and there account.

10. Suspension and Termination

The Company shall be entitled to cancel or suspend performance of the contract if the Purchaser (A) shall fail to make payment due to the Company under contract or on any other account on the date and/or (B) shall have a receiver appointed, go into liquidation or bankruptcy, or cease to trade. Upon any such cancellation the Purchaser shall make available for collection by the Company any goods in the possession of the Purchaser for which payment has not been made.

11. Copyrights and Patents

Products offered for sale may be subject of patents or other legal protection. All software is copyright. The Company will take legal action against any infringements of such rights.

12. Warranties

All items manufactured by Annicom Limited are guaranteed for a period of 36 months from the date of dispatch. Any item found to be defective through faulty materials or workmanship will be replaced or the purchase price refunded (at our discretion). Other items supplied by a third party to Annicom and distributed by us, would be subject to the manufacturers guarantee.

13. Descriptions

A) All diagrams, illustrations and descriptions are approximate and for guidance only

B) In line with its policy of continuous improvement, Annicom reserve the right to make design or product alterations, or to discontinue any item as it sees fit without prior notification.

orders@annicom.com +44 (0)1420 48 77 88 +44 (0)1420 48 77 99 **97**

PRODUCT INDEX

A to O

PRODUCT					
Α					
Actuators:	Ball Valve		78		
	Butterfly Valve		79		
	Damper/Fail-Safe [Damper	82 - 84		
	Fan Coil Valve				
	Rotary Shoe		77		
	Zone		77		
Air Pressure:	Differential Transm	itter - Single Range	46		
	Differential Transm	itter - Multi Range	46		
	Accessories		47		
	Room Differential F	47			
Air Velocity:	Probes		67		
	Probes - Multipoint		67		
	Transmitters - Sing	67			
	Transmitters - Sing	le Point + Temperature	67		
Alarm:	Annunciators		41		
	Integrators		41		
	Monitoring & Contr	•	21		
	Analogue Dual Out	put module	8		
_	Averaging module		11		
В					
Ball Valves		78			
•	gns & OEM Products	3	89		
Butterfly Valve	es		79		
=	le Sensors including	Modbus & BACnot	60		
Carbon Dioxid	•	WOODUS & BACHEL	61		
Carbon Mono			61		
Condensation			43		
Commissionin			86		
Conversion m	-		8		
Current:	Splitter module		10		
	Switches		52		
	Transducers		52		
	Transformers:	Solid Core	54		
		Split Core	54		
Custom Plates	3	·	88		
D					
Differential Pre	essure:	Air	46		
		Liquid	49		
		Room	47		
Displays:	LCD		42		
	LED		42		
E					
Emergency Pr	roducts		44		
F					
Fan Changeo	ver Controller		21		
Fan Coil Controllers - Room - Digital					
Fan Speed:	Electronic		24		
	Manual Relay module - Thr		22		
	13 13				
Relay & Transformer module - Three Speed Single Phase - Analogue In					
	22 23				
Single Phase - Manual Free Cooling Controller					
Free Cooling Controller Freon Gas Sensor (134A)					
	, ,		62		

PRODUCT			PAGE NO.
G			
Gas:	Sensors:	Air Quality	62
		Carbon Dioxide	61
		Carbon Monoxide	62
		LPG & LNG	63
	Interlock & Prov	ring Systems	65
	Refrigerant		63
	Switch:	Carbon Dioxide	62
Gas Detection S	ystem - Addressal	ole - Modbus Output	63
Н			
Heat Meter Integ	rators		58
Hotel Room Tem	perature Controls		88
Humidistats			39
Hydrostatic Leve	l Transmitters		70
I			
Inverter Drives:	IP21 Enclosure		24
	IP54 Enclosure		24
K			
kWh Meters			53
L			
Light Level Trans			73
-	cupancy Detector	S	72
Limiting module	-		10
Liquid Flow Swit			68
Liquid Level:	Capacitance Se	ensors	70
	Float Switches		69
	Top & Side Mou		70
	Ultrasonic Sens	ors	70
M	_		
Meters:	Gas		59
	Power / KWH		53
	Heat Integrators	3	58
	Oil		59
	Water:	Hot/Cold	57
		Pulse to Analogue module	
		Ultrasonic	58
Minimum, Maximum & Averaging module		11	
Multiplexers:	Analogue		7
	DeMultiplexer		7
	Digital		7
Occupancy:	Detectors incl. \	Vall Mount	72
	Dectectors & Light Level		72
	Detectors - Mici	73	
	Sensors - Switched Live		72

PRODUCT INDEX

P to 7

PRODUCT			PAGE NO.	PRODUCT		PAGE NO
P				т		
Package Unit Contro	ller			Temperature Sensor	s	33 - 36
PI Controllers	Free Cooling		19	Timers:	Analogue	15
	Temperature:	Analogue Input	19		Digital	15
		Thermistor Input	19	Thermostats:	Capillary	30
Phase Cut modules			11	monnodato.	Electronic	26
Phase Cut modules -	Amplifier		11		Frost	29
Phase Failure Relays:	•	Monitoring Supply	15		Immersion	31
		Phase Sequence	15		Plant - Wall Mounted	
Plant Extension Timer			43			29
Pneumatic modules -			11		Room	28
Pockets:	Immersion		30, 31, 34		Room - Electronic	27
Power Regulators:	miniorolon	Single Phase	17		Room - Occupancy Control	27
Towor Rogulatoro.		Three Phase	18		Strap-On	29
Power Supply		THICCT HAGE	51	Thyristors:	Single Phase	17
Pressure:			31		Three Phase	17, 18
riessuie.	Sensors:	Air	46, 47	Transformers:	230Vac to 24Vac	51
	Selisois.	Liquid	40, 47		Current	53, 54
	Switches:	Air	46	U		
Dranartianal Cantralla		All	19	Ultrasonic Pump Lev	el Control System	69
Proportional Controlle		lula				
Pulse Width to Analog			9	V		
Pulse to Analogue mo	dule - vvater modi	uie	9	Valves:	Balancing	76
_					Ball	78
R	_	A I I	0		Butterfly	79
Raise/Lower modules	:	Analogue In	8		Fan Coil	75
D (D : 11		Analogue Out	9		Gas Solenoid	80
Reference Device - Ha	_	e Output	87		Pressure Independent Control	76
Relay modules:	Standard		12 - 14		Rotary Shoe - Brass/Iron	77
Modbus			12		Solenoid	81
Relative Humidity Sen	sor with Resistive	Outputs	39		Zone	77
Rescaling module			10	VAV Controllers	Zone	20
Resistance module:		Input	9	Versatemp Spares		88
		Output	9	versaterrip Spares		00
RH & T Transmitters:			37	14/		
	Outside 2% and 3%		38	W		40
	Room 2% and 3		37	Water Leak Detection		43
	Thimble 2% and	13%	38	Water Meters:	Combined Meter & Integrator	58
S					Hot/Cold	57
Setpoint Adjusters - LCD Display, Analogue or Modbus		gue or Modbus	38		Pulse to Analogue module	9
Smoke Detectors & Sampling Tubes			63		Ultrasonic	57
Solid State Relays:	Single Phase - DIN Rail Mount		17	Weather Station		67
	Three Phase - DIN Rail Mount		17	Window Actuator Controller		19
	Two Stage		12	Wind Speed Switch		68
Splitter modules:	Current		10	Wind Speed & Direct	tion Sensors	68
	Voltage & Refer	ence	10			
Switching Modules:	Analogue		7			



HEAD OFFICE

ANNICOM LIMITED | UNIT 21 HIGHVIEW BUSINESS PARK | BORDON | HAMPSHIRE | GU35 0AX

UK TELEPHONE

+44 (0)1420 48 77 88

ORDERS EMAIL

orders@annicom.com

ORDERS FAX

+44 (0)1420 48 77 99

UAE HEAD OFFICE

ANNICOM INTERNATION FZE | UNIT 12 WAREHOUSE 2 | PO BOX 38853 | RAS AL KHAIMA FTZ

UAE WEBSITE

www.annicominternational.com

UAE TELEPHONE

+971 7268 9393