

#### Product Overview

The AX-PLC-GDD Programmable Logic Controller supports upto 48 I/O's and has 250 lines of ladder programming. The unit has a backlit LCD screen for display & modification of pre-selected parameters of functional blocks, viewing I/O status and programming on the device. The unit has PC software for programming, online and offline simulation, documentation and printing

#### Features

•	• Upto 32 Digital Inputs with expansion modules		•	12/24Vdc and 110/240 Vac versions
•	Upto 16 Digital Outputs with expansion modules		•	16 Timers & Counters
• 16 soft text messages		•	16 Time switches	
•	Modbus RTU communication (option)		•	LCD Display
Order Codes AX-PLC-G7DDT9 -Programmable Logic Master Controller AC (8 x DI, 4 x DO)				
AX-PLC-G8DDT9 AX-PLC-G7DDT6E		-Programmable Logic Master Controller DC (6 x DI, 2 x AI, 4 x DO) -Programmable Logic Extension Module AC (8 x DI, 4 x DO)		
AX-PLC-G8DDT6E		-Programmable Logic Extension Module DC (6 x DI 2 x AI, 4 x DO)		
AX-PLC-GFDNN3M -Mer		-Memory Card		
AX-PLC-GFDNN1 -USB Cable				

AX-PLC-GFDNN1-USB CableAX-PLC-GFDNN2S-RS232 Serial Communication CableAX-PLC-GNXNN1-Software supplied on CD-ROM compatible with Windows 98/2000/XP/VistaAX-PLC-G7XDTR4-RS485 Module ACAX-PLC-G8XDTR4-RS485 Module DC

#### Applications

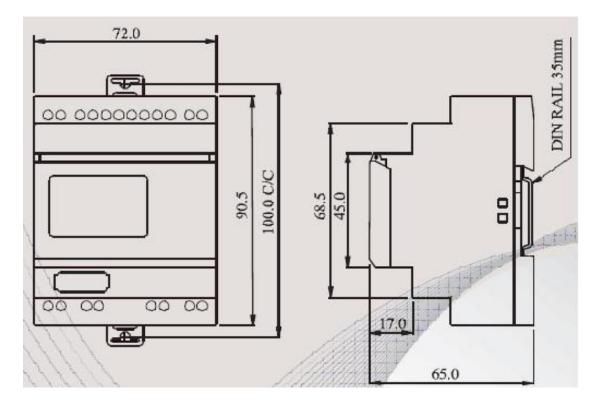
HVAC Energy Management Heating and Cooling Control Ventilation and Air Conditioning systems Motor, pump, valve and compressor control Automation of Barriers Automation of Lights Industrial Printing and Packaging machines Ancillary EquipmentMaterial handling equipment Conveyors Interlocked Units in distributed Control systems Water purification and treatment

AX-PLC-GDD- Issue 1.0 - Date 21/7/2011

Page 1 of 6

Unit 21, Highview, High Street, Bordon, Hampshire. GU35 0AX. Tel: +44 (0)1420 487788 Fax: +44 (0)1420 487799 Email: sales@axio.co.uk www.axio.co.uk

Dimensions



#### Programming

Programming can be carried out independantly using the keys on the master controllers with the help of ladder diagram on a PC using the "Geniesoft" software supplied with each master controller When using a PC programming can be carried out in either in ladder language or the "Geniesoft".

#### Backlighting

Backlighting of the display will be there for a minimum of 15 seconds & by direct action of the keys on the Master controller or by using the "Device Utilities" option in the "Geniesoft" application software

#### Memory

The units has a back up memory, which allows programmes to be transferred or copied onto another master controller with the help of the memory card. This feature enables quick copying of the programs without the use of a laptop or PC.

#### I / O Extensions

Users can connect a maximum of 3 extension modules to each master controller & each extension module has 8 inputs and 4 outputs, so we can expand upto 48 I/O's if necessary. The expansions are made in a daisy chain fashion.

#### Communication Module

A module for communication on a Modbus network is available, to facilitate communication of the logic relay over a 2 wire half duplex RS 485 link. These modules have to be powered as per the master controller and extension modules. The master controller can be connected to this communication interface by means of the cable supplied and the communication takes place via the communications module (see page 6)

AX-PLC-GDD- Issue 1.0 - Date 21/7/2011

Page 2 of 6

Unit 21, Highview, High Street, Bordon, Hampshire. GU35 0AX. Tel: +44 (0)1420 487788 Fax: +44 (0)1420 487799 Email: sales@axio.co.uk www.axio.co.uk

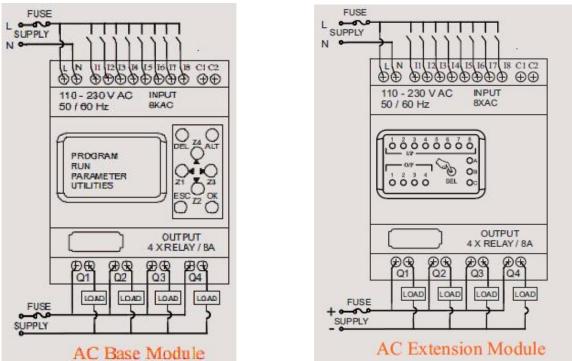


### AX-PLC-G7DDT9-Master Controller-AC & AX-PLC-G7DDT6E - Extension Module

Product Specification

**Power Supply:** Max Supply Current: **Power Consumption: Digital Input Range: Digital Inputs: Modbus Communication: Switching Contacts Relay Outputs: Timers: Counters: Time Switches Compare Counters:** Soft Messages: **Auxiliary Relays: I/O Extensions:** Power Reserve (for clock only): LCD Display: Lines for Ladder Programme: **Protection: External Fusing: Dimensions:** Weight: **Terminals: Ambient Range: Approvals:** EMC:

110 to 240Vac - 20% +10% 36mA 5W 0-40Vac -Off 70 to 265Vac on 8 yes -RTU Slave SPST Relays 8A @240Vac resistive 4 16 16 (up/down and & retentive selectable) 16 16 16 priority driven 32 Yes maximum of 3 150hrs (lithium battery) @ 0 to 55C 2 Line 16 digit LCD 250 IP20 (for front panel only - conforms to IEC 60529) 250mA fuse 72x65x90mm 248 gms Terminals for 0.5 to 2.5mm2 cable 0 to 55°C 35 to 85% RH non condensing CE, UL CISPR 14-1 Class B, IEC 61000-4-2 level 111, IEC 61000-4-4 level 1V IEC 61000-4-5 level 111, IEC 61000-4-11, IEC 68-2-6



Every effort has been taken in the production of this data sheet to ensure it's accuracy. Axio can not, however, accept responsibility for any damage, expense, injury, loss or consequential loss resulting from any errors or omissions. Axio has a policy of continuous improvement and reserves the right to change this specification without notice.

AX-PLC-GDD- Issue 1.0 - Date 21/7/2011

Page 3 of 6

Unit 21, Highview, High Street, Bordon, Hampshire. GU35 0AX. Tel: +44 (0)1420 487788 Fax: +44 (0)1420 487799 Email: sales@axio.co.uk www.axio.co.uk

### AX-PLC-GDD

Programmable Logic Controller

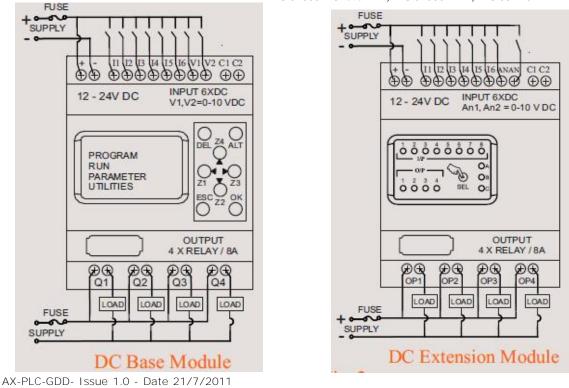
AX-PLC-G8DDT9 - Master Controller DC & AX-PLC-G8DDT6E Extens

**Product Specification** 

**Power Supply:** Max Supply Current: **Power Consumption: Digital Input Range: Digital Inputs: Analogue Input Range: Analogue Inputs: Analogue Functions: Modbus Communication: Switching Contacts Relay Outputs: Timers: Counters: Time Switches Compare Counters:** Soft Messages: **Auxiliary Relays: I/O Extensions: Power Reserve (for clock only):** LCD Display: **Lines for Ladder Programme: Protection: External Fusing: Dimensions:** Weight: **Terminals: Ambient Range: Approvals:** EMC:

12 to 24Vdc -20% to +10% of normal voltage 360mA 5W 0-4Vdc -Off 7 to 26.4Vdc on 6 0-10Vdc 2 (can be used digitally) 12 yes -RTU Slave SPST Relays 8A @240Vac resistive 4 16 16 (up/down and & retentive selectable) 16 16 16 priority driven 32 Yes maximum of 3 150hrs (lithium battery) @ 0 to 55C 2 Line 16 digit LCD 250 IP20 (for front panel only -conforms to IEC 60529) 500mA fuse 72 x 65 x 90mm 232 gms Terminals for 0.5 to 2.5mm2 cable 0 to 55°C 35 to 85% RH non condensing CE, UL CISPR 14-1 Class B, IEC 61000-4-2 level 111, IEC 61000-4-4 level 1V





Page 4 of 6

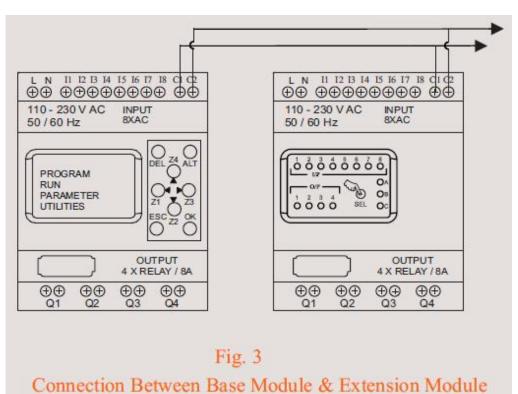
Unit 21, Highview, High Street, Bordon, Hampshire. GU35 0AX. Tel: +44 (0)1420 487788 Fax: +44 (0)1420 487799 Email: sales@axio.co.uk

www.axio.co.uk



AX-PLC-G7DDT6E - Extension Module AC

AX-PLC-G8DDT6E - Extension Module DC



Every effort has been taken in the production of this datasheet to ensure its accuracy. Axio can not, however, accept any responsibility for any damage, expense, injury, loss or consequential loss resulting for any errors or omissions. Axio has a policy of continuous improvement and reserve the right to change this specification without notice.

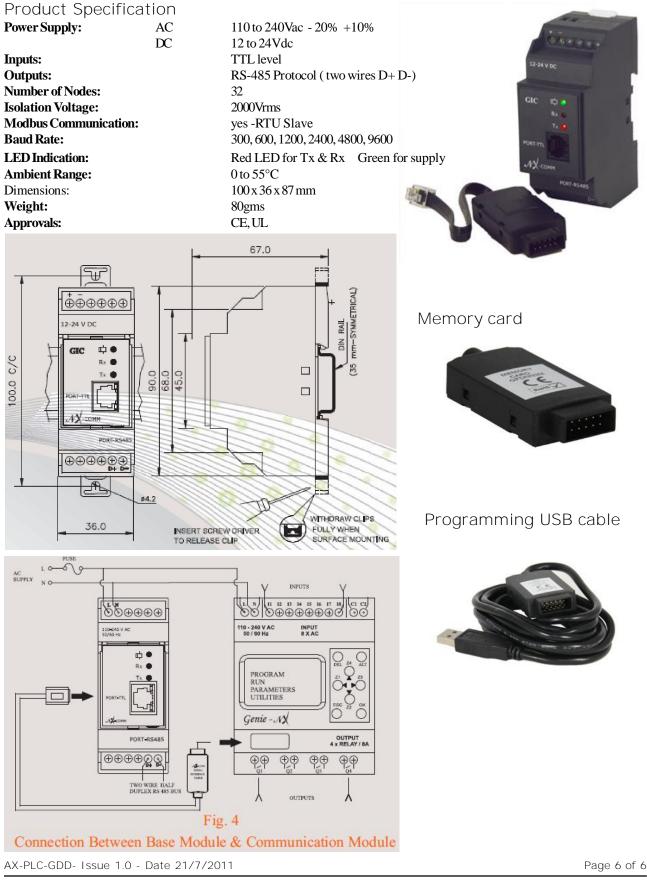
AX-PLC-GDD- Issue 1.0 - Date 21/7/2011

Page 5 of 6

Unit 21, Highview, High Street, Bordon, Hampshire. GU35 0AX. Tel: +44 (0)1420 487788 Fax: +44 (0)1420 487799 Email: sales@axio.co.uk

www.axio.co.uk





Unit 21, Highview, High Street, Bordon, Hampshire. GU35 0AX. Tel: +44 (0)1420 487788 Fax: +44 (0)1420 487799 Email: sales@axio.co.uk www.axio.co.uk