



## Product overview

The Axio AX-VDEMUX demultiplexes one switched 0-10V analogue input to four analogue outputs. This requires two analogue lines, one for the switched 0-10V and one for the output selection. This doubles the number of analogue outputs available. The AX-VDEMUX is supplied in a DIN rail carrier suitable for mounting on TS35 section DIN rail and features high quality rising clamp terminals for ease of connection.

## Features

- Four analogue outputs using two lines
- Eight analogue outputs using three lines (two units)
- Can connect directly to AX-VMUX
- 24Vac/dc powered
- DIN rail carrier (TS35 DIN Rail)
- High quality rising clamp terminals

## Product specifications

DeMultiplexer Input:	0-10 volts input, 1mA maximum
Select Input:	1-4 volts stepped input, 1mA maximum
Demultiplexer Outputs:	Four 0-10 volt output, 5mA maximum
Supply Voltage:	24Vac/dc ( $\pm 15\%$ )
Supply Current:	50mA dc / 125 mA ac maximum
Terminals:	Rising clamp for 0.5-2.5mm <sup>2</sup> cable
Ambient Temperature Range:	0°C to 50°C
Dimensions:	57(w) x 82(h) x 43(d) (maximum)
Weight:	65gms
Country of Origin:	United Kingdom

## Order codes

AX-VDEMUX Voltage DeMultiplexer

Order Online at:  
[www.annicom.com](http://www.annicom.com)  
Email orders and enquiries to:  
[Sales@annicom.com](mailto:Sales@annicom.com)

## Installation

The AX-VDEMUX should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to and any local regulations. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to.

## Operation and connections

### Sample time

This sets the rate at which the SELECT IN input is sampled. It has to be the same for the two samples before the output is updated. It will then update at this rate until SELECT IN is changed.

Position	Time
C	0.25
D	0.5
E	0.75
F	1.0

### SELECT IN mode

The SELECT IN should be set to 0, 1, 2, 3 OR 4 VOLTS. With 1 volt on SELECT IN the voltage on DEMUX IN will be latched into 0-10V OUT 1. The AX-VDEMUX will take 1 second to confirm the voltage on SELECT IN and then update the relevant output at 1 second intervals until SELECT IN is changed. With 2, 3 or 4 volts on SELECT IN the relevant output 0-10V OUT2, 3 or 4 voltage will be set to the DEMUX IN value in line with the above timings. The outputs can be set in any order.

### Connecting multiple AX-VDEMUX units

Depending on the drive capability of the controlling unit multiple VDEMUXs can have their SELECT IN lines connected. A buffer may be needed to provide more drive. This will provide a further 4 outputs for each additional AX-VDEMUX / analogue line used.

