

Product Overview

The AX-ABC converts and buffers an analogue input signal (current or voltage selectable) to an analogue voltage signal output.

The module is powered by 24Vac or 24Vdc and provides a resettable, fused output for current loop applications. The unit is supplied in a DIN Rail carrier suitable for mount on TS35 section DIN Rail, and features high quality rising clamp terminals for ease of connection.

Features

- Voltage or current signal inputs
- Voltage signal output
- 24Vac/dc powered
- Resettable fused output for current loop power
- DIN Rail carrier as standard (TS35 DIN Rail)
- High quality rising clamp terminals

Product Specifications

Input Signal :	Voltage	0-5V, 0-10V, 2-10V or 5-10V (47k Ω load impedance)
	Current	0-20mA, 4-20mA, 0-10mA or 10-20mA (500 Ω load impedance)
Output Signal:	AX-ABC	0-5V, 0-10V, 2-10V at 10mA max. load (refer to table on page 2)
	AX-ABC-Dual	2 x Output signals as above
Loop Power Output:	24Vac supply	36Vdc nominal, fused at 200mA
	24Vdc supply	23.5Vdc nominal, fused at 200mA
Terminals:		Rising clamp for 0.5-2.5mm ² cable
Ambient Temperature Range:		0°C to 50°C
Dimensions & Weight:	AX-ABC	22(W) x 82(H) x 43(D)mm 30g
	AX-ABC-Dual	45(W) x 82(H) x 43(D)mm 50g
Country of Origin:		United Kingdom

Order Codes

AX-ABC	Analogue Buffer Conversion Module
AX-ABC-Dual	Analogue Buffer Conversion Module, 1 input - 2 outputs

Installation

The AX-ABC 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.

Description and Connections

The input and output configuration is set by four separate jumper links. Refer to the tables below for correct configuration. The jumpers should be set correctly for the application before applying power to the unit. Only fit the jumpers shown in the table.

Two spare jumpers are fitted to single pins of position B, should they be required for other options. These, and any other spare jumpers, may be discarded if not required.

Please note, the trim pots on the units are for factory calibration purposes only.

I/O selection table - Current Input

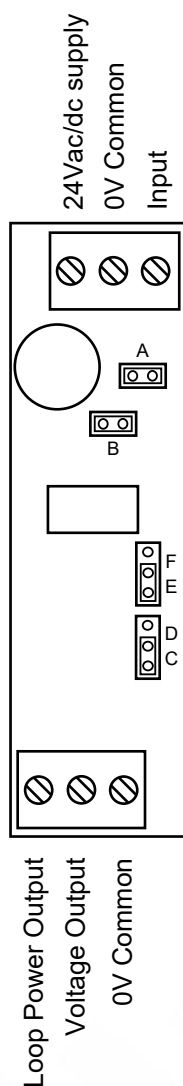
Output	Input			
	0-20mA	4-20mA*	0-10mA	10-20mA
0-10V*	A+F+D	A+E *	A+D	A+C
2-10V	-	A+F+D	-	-
0-5V	A+B+F+D	-	-	-

* Factory default setting 4-20mA input, 0-10V output

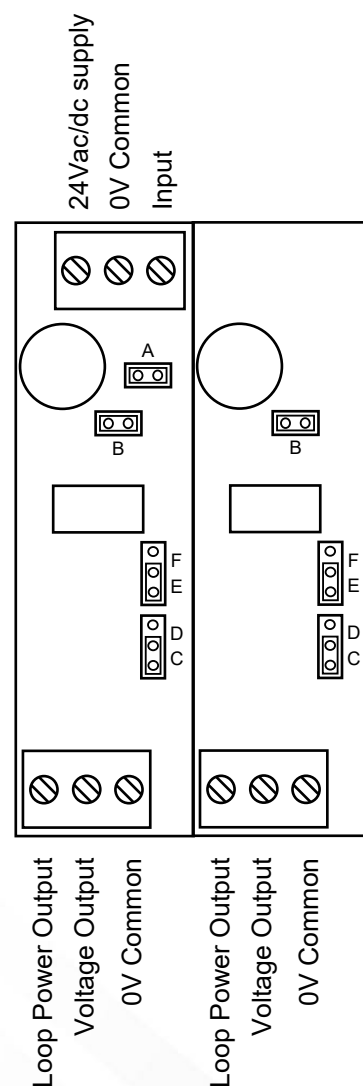
I/O selection table - Voltage Input

Output	Input			
	0-10V	2-10V	0-5V	5-10V
0-10V	F+D	E	D	C
2-10V	-	F+D	-	-
0-5V	B+F+D	-	-	-

AX-ABC



AX-ABC-Dual



Datasheet Contents

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