

Specifications

Inputs

Quantity	8
Voltage range	1 – 5V
Input Impedance	1M Ω
Resolution	1microVolt
Accuracy:	0.01% of reading + 5uV
Linearity	0.01% of span max.
Temperature Drift	50ppm/°C typical
Response Time 10-90% step	Settles to within 3% in 200ms

Isolation

Input to system logic	100% tested to 1500Vac rms (60s)
Input to Input	100% tested to 500Vac rms (60s)
Insulation resistance	>20M Ω at 500Vdc

Interference Rejection

NMRR/CMRR at 50/60Hz	50dB / 120dB up to 250Vac rms
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LED Indication

CPU OK	ON = operating correctly Flashing = Module failure OFF = No Power or module failure
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Output Termination

Types	Screw clamp Plug-in Terminal Blocks
Screw Terminal Wire Size	2.0mm ² maximum; 0.5 mm ² max.recommended

Environmental

Operating Temperature	0°C to +60°C (32°F to +140°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	5 - 95% max. at 40°C (104°F) non-condensing.
Protection	Electronics conformally coated

Logic Power Consumption

From Logic Power Supply	300mA max from 5Vdc
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Order Code

M1434E	Maxiflex 8AI ISO 8 channel isolated analogue input module
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INSTALLATION GUIDE

Maxiflex 8AI Module Model M1434

GENERAL DESCRIPTION

The M1434 8AI ISO 8 channel analogue input module provides 8 voltage inputs (1-5V).

Current inputs can be accommodated using an external 250 ohm shunt resistor switched in across the input.

The module may be inserted into any I/O slot in a Maxiflex system.

Inputs are terminated on plug-in screw terminals. The module can be inserted or removed while the system is powered.

Auto-detection capability allows the Maxiflex CPU to recognise the presence of this module in the system.

Module configuration is retained in the Maxiflex CPU. When a module is replaced, the CPU will download the correct configuration to the new module automatically.

Features

- Fits any Maxiflex I/O Slot
- 8 Individually isolated channels.
- 20 bit measurement resolution
- Plug-in terminals
- Hot plug-in.



Standard Configuration

Installation

Install the M1434 Module in any I/O Slot in a Master or Slave Maxiflex Base.

Wire the inputs as shown in the Electrical Connection Diagram.

1.

Electrical Connections

