

Analogue Rescaling Module ARM

Page 1 of 2

Description

The IO-ARM analogue rescaling module accepts voltage or current inputs and rescales them to voltage or current outputs. A range of preset values are link selectable and fine adjustments can be made using trim potentiometers. The IO-ARM can also reverse the signal. Units are supplied in a DIN rail mounting housing.

Features

- Field selectable ranges
- Reverse or normal output
- Factory calibrated
- LED power indication
- DIN rail mounting



Technical Specification

Input signals: 0 to 35Vdc

0 to 44mA

Ambient range: -10°C to +50°C

Output signals: 0.25 to 20Vdc

1 to 44mA

Power supply: 24Vac/dc @ 200mA max.

Dimensions: 94 x 55 x 26mm

Order Code

ARM Analogue Rescaling Module

Installation

Ground yourself before touching board. Some components are static sensitive.

Mounting:

Circuit board may be mounted in any position. If circuit board slides out of snap track, a nonconductive "stop" may be required. Use only fingers to remove board from snap track. Slide out of snap track or push against side of snap track and lift that side of

Power connections:

1. 24 VDC - with power off, connect 24 volt DC power supply to "24" (+) and (-) terminals on the board.

the circuit board to remove. Do not flex board or use tools.

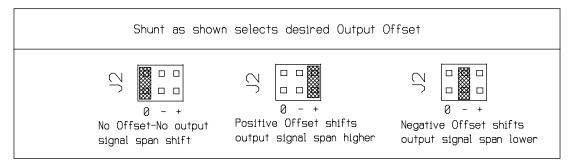
- 24 VAC with power off, connect one transformer secondary leg to "24" (+) and the other to the common (-) on the board, along with signal input and signal output common (-). Check the wiring configuration of any other loads that may be connected to this transformer. Any field device connected to this transformer must use the same common. If you are not sure of other field device configuration, use separate transformers.
- 2. If the 24 volt AC power is shared with devices that have coils such as relays, solenoids, or other inductors, each coil must have an MOV, AC Transorb, or other spike snubbing device across each of the shared coils. Without these snubbers, coils produce very large voltage spikes when de-energizing that can cause malfunction or destruction of electronic circuits.
- 3. If the 24 volt DC power is shared with devices that have coils such as relays, solenoids, or other inductors, each coil must have an MOV, DC Transorb, or diode placed across the coil or inductor. The cathode, or banded side of the DC Transorb or diode, connects to the positive side of the power supply.
- 4. If you are not sure of other field device configuration, use separate transformers. It is highly suggested that the 24 VAC neutral of all transformers be earthed at the transformer. Analog input, digital input, and analog output circuits should not be earth grounded at two points. Any field device connected to this transformer must use the same common. If you are not sure of other field device configuration, use separate transformers.
- 5. You should measure the actual voltage output of the secondary. If the output is not fully loaded you may read a higher voltage than the circuit board can handle. The ARM does NOT isolate the input signals from the output. Use the Analog Isolation Module (AIM1, AIM2, or AIM3) if you need to isolate the signal from the device being controlled.

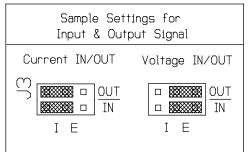


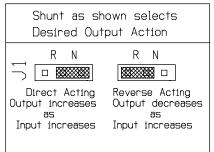
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Page 2 of 2

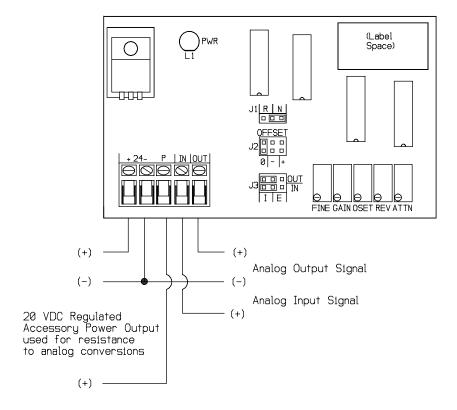
Jumper Settings







Wiring



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