ARM

Analog Current/Voltage Rescaling Module

The ARM is an analog rescaling module which accepts an analog (voltage or current) input signal and rescales it to another voltage or current output signal. The top-adjust trimmer potentiometers can be used to make fine adjustments to output ranges for maximum flexibility. This device can attenuate an input signal to 100%. The ARM also has an adjustable gain and offset. The output gain can be adjusted from 1 to 25 times the input (gain will vary depending on input). The offset of the output can be adjusted anywhere from 0 to +/- 20 VDC. The ARM also has the ability to reverse an input signal. The ARM has a regulated 20 VDC power supply output to power sensors. The ARM can also accept a resistance input by using voltage divider applications. The ARM is field calibratable, however, factory calibration is available upon request for an additional charge. This will speed up installation time for the end user.

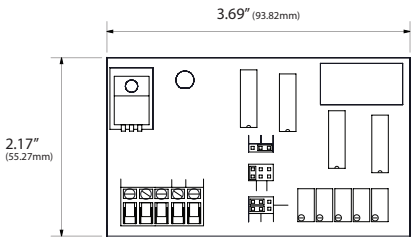
Applications: Resistance to Current or Voltage Conversion, Voltage to Current or Voltage Conversion, Current to Current or Voltage Conversion, Shrink or Expand Sensor Ranges, Increase Analog Input Resolution, Reverse a Signal, Adapt Non-compatible Signals

The ARM is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, www.workaci.com.

PRODUCT SPECIFICATIONS

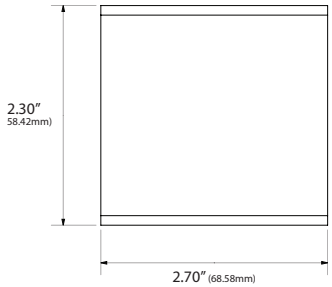
Supply Voltage:	24 VAC or 24 VDC, (+/- 10%), 50/60 Hz
Supply Current:	200 mA maximum
Input Voltage Signal Range (@ Impedance):	0-35 VDC @ 1,000,000Ω
Input Current Signal Range (@ Impedance):	0 to 44 mA @ 250Ω
Input Resistance Signal Range:	0 to 500,000Ω
Field Adjustable Ranges:	Multi-turn potentiometers
Output Voltage Signal Range:	0.25 VDC minimum to 20 VDC maximum
Output Current Signal Range:	44 mA maximum, Signal Gain 1 to 25 times (nominal) depending on input value
Output Accuracy:	+/- 1%
Output Signal Attenuation:	0 to 100%
Output Signal Offset:	0.25 to 20 VDC
Output Signal Inversion (RA):	20 to 0.25 VDC (nominal)
Output Current Load Impedance:	750Ω @ 20 mA
Output Voltage Load Impedance:	3300Ω @ 20 VDC +/- 10% / 400Ω @ 10 VDC +/- 10%
Regulated Power Output:	20 VDC +/- 10%, 30 mA maximum
Connections:	45° Captive screw Terminal Blocks
Wire Size:	12 (3.31 mm²) to 22 AWG (0.33 mm²)
Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)
Operating Temperature Range:	35 to 120°F (1.7 to 48.9°C)
Operating Humidity Range:	10 to 95% non-condensing
Storage Temperature:	-20 to 150°F (-28.9 to 65.5°C)
Snaptrack Material:	Polyvinyl Chloride (PVC)
Snaptrack Flammability Rating:	UL94 V-0
Product Dimensions:	(L) 3.69" (W) 2.17" (H) 1.00" (93.73 x 55.12 x 25.54 mm)
Product Weight:	0.200 lbs. (0.0907 Kg)
Agency Approvals:	RoHS2, WEEE

DIMENSIONAL DRAWING



Board Only

Snap Track



Snap Track

STANDARD ORDERING

Model # Example: ARM -OR- 102028

Model #	Item #	Description
ARM	102028	Analog Current/Voltage Rescaling Module

SPECIAL CALIBRATION ORDERING

Model # Example: C/ARM -OR- 137061

Model #	Item #	Description
C/ARM	137061	Specify Input and Output

ACCESSORIES

Model # Example: A/DO008 -OR- 142583

Model #	Item #	Description
A/DO008	142583	Transient Voltage Suppressor, Bi-directional, 56VAC/DC, 1500W
A/DRC 2.7 X 2.18	142626	DIN Rail Adapter Kit
ENC1	102472	20 Gauge Metal Enclosure, Designed to Hold Interfaces Products