



ARM2

Analog Current/Voltage Rescaling Signal Splitter

The ARM2 will accept a single analog (voltage or current) signal and split that signal into two DC non-isolated current sourcing outputs that can be re-scaled. Its primary application is as a signal splitter. The outputs are always scaled identically and will always track each other. 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 ARM2 also has an adjustable gain and offset. The output gain can be adjusted from 1 to 20 times the input (gain will vary depending on input). The ARM2 also has the ability to reverse an input signal. The

ARM2 has a regulated 23 VDC power supply output to power sensors. The ARM2 can also accept a resistance input by using voltage divider applications. The ARM2 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: Signal Loop Monitoring, Resistance to Current Conversion, Voltage to Current Conversion, Current to Current Conversion, Shrink or Expand Sensor Ranges, Increase Analog Input Resolution, Reverse a Signal, Adapt Non-compatible Signals

The ARM2 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.

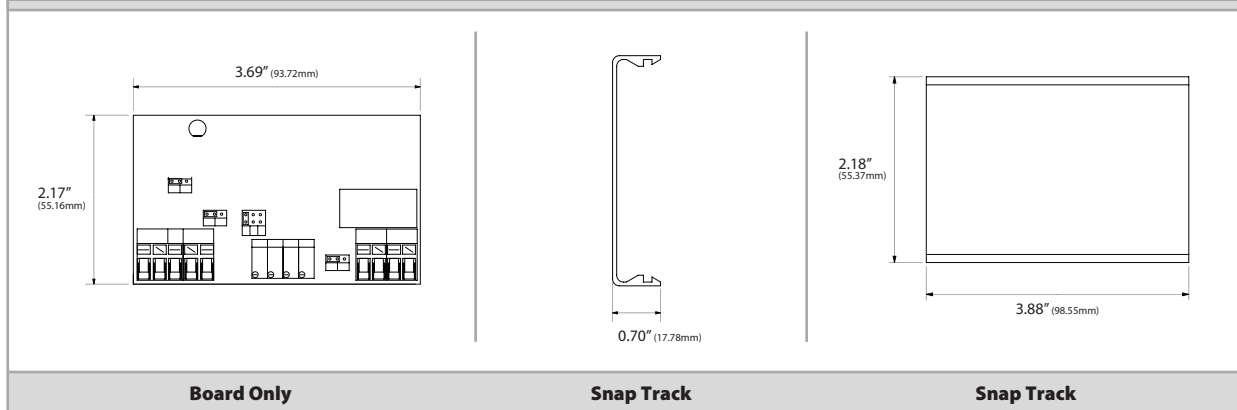
PRODUCT SPECIFICATIONS

Supply Voltage:	22.8 to 30 VDC, 21.6 to 26.4 VAC
Supply Current:	100 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 Current Signal Range:	Signal Gain 1 to 20 times (nominal) depending on input value
Signal Output Accuracy:	Less than or equal to 1% of output span over full temperature range when using 1:1 input to output Accuracy is calibration dependent over full temperature range
Output Signal Attenuation:	0 to 100%
Output Signal Offset:	0.25 to 20 VDC
Output Signal Inversion (RA):	20 to 0 mA (nominal)
Output Current Load Impedance:	750Ω @ 20 mA
Regulated Power Output:	23 VDC nominal @ 24 VAC Power Supply, 30 mA maximum
Connections:	45° Captive screw Terminal Blocks
Wire Size:	12 (3.31 mm ²) to 22 AWG (0.33 mm ²)
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:	0.231 lbs. (0.104 Kg)
Agency Approvals:	RoHS2, WEEE





DIMENSIONAL DRAWING



STANDARD ORDERING

Model # Example: **ARM2** -OR- **102029**

Model #	Item #	Description
ARM2	102029	Analog Current/Voltage Rescaling Signal Splitter

SPECIAL CALIBRATION ORDERING

Model # Example: **C/ARM2** -OR- **137062**

Model #	Item #	Description
C/ARM2	137062	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 3.88 X 2.18	142623	DIN Rail Adapter Kit
ENC1	102472	20 Gauge Metal Enclosure, Designed to Hold Interfaces Products

