

# 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](http://www.workaci.com).**

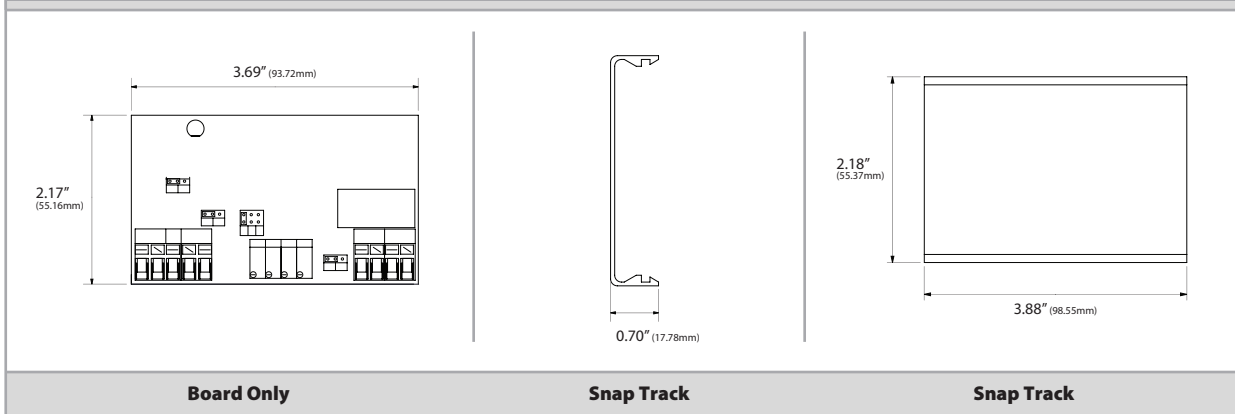
### PRODUCT SPECIFICATIONS

<b>Supply Voltage:</b>	22.8 to 30 VDC, 21.6 to 26.4 VAC
<b>Supply Current:</b>	100 mA maximum
<b>Input Voltage Signal Range (@ Impedance):</b>	0-35 VDC @ 1,000,000Ω
<b>Input Current Signal Range (@ Impedance):</b>	0 to 44 mA @ 250Ω
<b>Input Resistance Signal Range:</b>	0 to 500,000Ω
<b>Field Adjustable Ranges:</b>	Multi-turn potentiometers
<b>Output Current Signal Range:</b>	Signal Gain 1 to 20 times (nominal) depending on input value
<b>Signal Output Accuracy:</b>	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
<b>Output Signal Attenuation:</b>	0 to 100%
<b>Output Signal Offset:</b>	0.25 to 20 VDC
<b>Output Signal Inversion (RA):</b>	20 to 0 mA (nominal)
<b>Output Current Load Impedance:</b>	750Ω @ 20 mA
<b>Regulated Power Output:</b>	23 VDC nominal @ 24 VAC Power Supply, 30 mA maximum
<b>Connections:</b>	45° Captive screw Terminal Blocks
<b>Wire Size:</b>	12 (3.31 mm <sup>2</sup> ) to 22 AWG (0.33 mm <sup>2</sup> )
<b>Terminal Block Torque Rating:</b>	0.5 Nm (Minimum); 0.6 Nm (Maximum)
<b>Operating Temperature Range:</b>	35 to 120°F (1.7 to 48.9°C)
<b>Operating Humidity Range:</b>	10 to 95% non-condensing
<b>Storage Temperature:</b>	-20 to 150°F (-28.9 to 65.5°C)
<b>Snaptrack Material:</b>	Polyvinyl Chloride (PVC)
<b>Snaptrack Flammability Rating:</b>	UL94 V-0
<b>Product Dimensions:</b>	(L) 3.69" (W) 2.17" (H) 1.00" (93.73 x 55.12 x 25.54 mm)
<b>Product Weight:</b>	0.231 lbs. (0.104 Kg)
<b>Agency Approvals:</b>	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

