

## Analog Current or Voltage Re-scaling Module

### FEATURES

- Field Selectable Input & Output Ranges
- Reverse Acting or Direct Acting Output
- LED Power Indicator
- Compact and Economical
- Mounts in provided Snap Track

### 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



Optional  
ENC1  
Enclosure

Optional  
DRC  
Adapts  
Snap Track  
to DIN Rail



### PRODUCT DESCRIPTION

The ARM is an analog re-scaling module which accepts an analog voltage or current signal and re-scales it to another voltage or current range. Several preset ranges are jumper selectable. The top-adjust trimmer potentiometers can be used to make fine adjustments to output ranges for maximum flexibility. The ARM 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) to the ARM. The offset of the output can be adjusted anywhere from +/- .25 to +/- 20 VDC for the ARM

The ARM has the ability to reverse a signal. The ARM also has a regulated 20 VDC power supply output to power sensors.

By using voltage divider applications, the ARM can accept a resistance input. If a higher power output is required, refer to the **ASA**.

### ORDERING INFORMATION

Specify: **ARM** \_\_\_\_\_ with \_\_\_\_\_ DRC Kit? or \_\_\_\_\_ ENC1 Enclosure?

### SPECIFICATIONS

#### Electrical Requirements

##### Power Supply

Supply voltage	Regulated 24 VDC +/- 10% << 0.2 volts ripple Regulated 22 to 26 VAC
Supply current	200 mA max.
Regulated Power Output (for user)	20 VDC +/- 10% (for other Power Output voltages, contact ACT) 30 mA maximum

### *Input*

Input Voltage Range	0 to 35 VDC
Input Current Range	0 to 44 mA
Input Voltage Impedance	1,000,000 ohms
Input Current Impedance	250 ohms

### *Output*

Field Adjustable Ranges	Multi-turn potentiometers
Voltage Range	0.25 VDC minimum to 20 VDC maximum
Output Accuracy	1%
Current Output Range	44 mA maximum
	Signal Gain 1 to 25 times (nominal) depending on input value
Output Signal Attenuation	0 to 100 %
Output Signal Offset	+/- 0.25 to 20 volts
Output Signal Inversion (Reverse Acting)	20 to 0.25 volts (nominal)
Output Current Load Impedance	750 ohms @ 20 mA
Output Voltage Load Impedance	3300 ohms @ 20 volts +/- 10%
	400 ohms @ 10 volts +/- 10%

## **Mechanical Requirements**

### *Connections*

Wire Size	Up to one 14 gauge maximum
Terminal Type	45° Captive screw, moving clamp design in nickel plated copper alloy

### *Dimensions*

3.69" L x 2.171" W x 1.0" H

### *Weight*

2.0 oz.

### *Mounting*

Furnished with 3.7" length of 2.25" wide snap track

## **Environmental Requirements**

Operating Temperature	32 to 120 degrees F
Storage Temperature	-20 to 150 degrees F
Operating Humidity	10% to 95% non-condensing

**Specifications may change without notice to improve product performance or functionality.**