

Analog Current or Voltage Re-scaling Module

FEATURES

- · Field Selectable Ranges
- Reverse Acting or Direct Acting Output
- LED Power Indicator
- · Compact and Economical
- Mounts in Snap Track or ENC1 Enclosure

APPLICATIONS

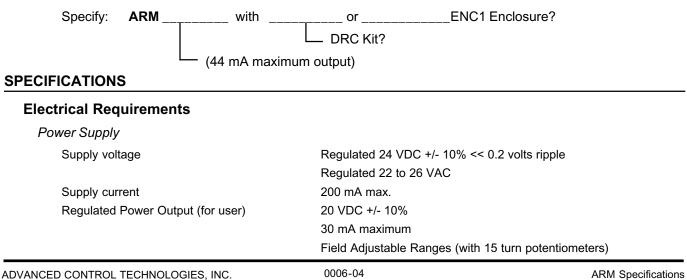
- Resistance to Current/Voltage Conversion
- Voltage to Current/Voltage Conversion
- Current to Current/Voltage Conversion
- Shrink or Expand Sensor Ranges
- Increase Analog Input Resolution
- Reverse Signals
- Adapt Non-compatible Signals

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 on 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 anywhere from 1 to 25 times the input (gain will vary depending

ORDERING INFORMATION





on input) on the ARM. The offset of the output can be adjusted anywhere from +/- .25 to +/- 20 VDC for the ARM

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

By using voltage divider applications, the ARM can also accept a resistance input. A higher power output model, the ASA is also available.

Input		
Voltage Range	0 to 35 VDC	
Current Range	0 to 44 mA	
Input Impedance	Voltage = 1,000,000 ohms	
	Current = 250 ohms	
Output		
Voltage Range	0.25 VDC minimum	
	20 VDC maximum	
Accuracy	1%	
Power Range	44 mA maximum	
	Signal Gain 1 to 25 times (nominal) depending on input value	
Signal Attenuation	0 to 100 %	
Signal Offset	+/- 0.25 to 20 volts	
Signal Inversion (Reverse Acting)	20 to 0.25 volts (nominal)	
Load Impedance	Current = 750 ohms @ 20 mA	
	Voltage = 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 (ENC1 optional)

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.

Call for Other Calibration Ranges and Versions.

If you have a different application or need, please call 1-800-886-2281 and discuss your needs with our Sales Engineers.