



ARM

Input

Analog, Resistive

Output

Analog

Analog Current or 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 and can also accept a resistance input by using voltage divider applications. The ARM also has the ability to reverse an input signal and has a regulated 20 VDC power supply output to power sensors. The ARM is field calibratable, however, factory calibration is available upon request.

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 web site, www.workaci.com.



Specifications

Supply Voltage	Regulated 24 VDC +/- 10% << 0.2 volts ripple, Regulated 22 to 26 VAC
Supply Current	200 mA maximum
Regulated Power Output	20 VDC +/- 10%, 30 mA maximum (for other Power Output voltages, contact ACI)
Input Voltage Range	0 to 35 VDC
Input Current Range	0 to 44 mA
Input Voltage Impedance	1,000,000Ω
Input Current Impedance	250Ω
Field Adjustable Ranges	Multi-turn potentiometers
Output 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 (RA)	20 to 0.25 volts (nominal)
Output Current Load Impedance	750Ω @ 20 mA
Output Voltage Load Impedance	3300Ω @ 20 volts +/- 10%/400Ω @ 10 volts +/- 10%
Operating Temp/RH	32 to 120°F (0 to 48.9°C)/10 to 95% non condensing
Product Dimensions	(L) 3.69" (W) 2.17" (H) 1.00"

Ordering

Please select ARM as an Interface Device (A). Choose an Optional Accessory (1) if desired.

A Interface Device

ARM (Analog Current or Voltage Rescaling Module)

1 Optional Accessories

- (None)
- ENC1 (ENC1 Enclosure)
- DRC (Din Rail Mounting Kit)

Build your part number

After completing (A) from the above table, fill in the Part Number Table below. (1) is an Optional Accessory. An example part number is offered.

A

EXAMPLE: ARM

1

EXAMPLE: ENC1

