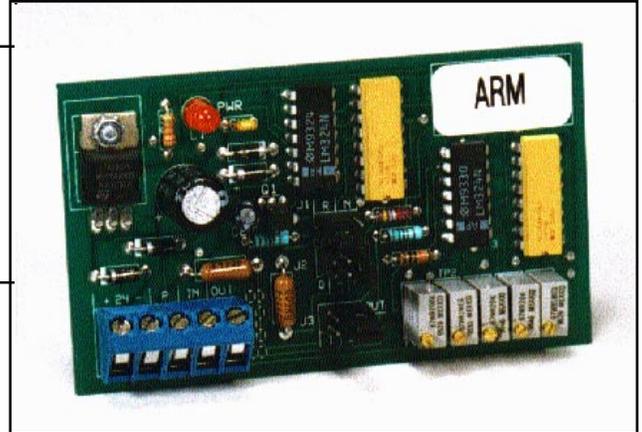


FEATURES

- 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 de-

pending on input) on the ARM (1 to 18 for the ARM/B2). The offset of the output can be adjusted anywhere from +/- .25 to +/- 20 VDC for the ARM (.25 to 18 VDC for the ARM/B2).

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 **ARM/B2** is also available.

ORDERING INFORMATION

Specify: **ARM** _____ with _____ DRC Kit? or _____ ENC1 Enclosure?

Standard (44 mA maximum output)
B2 (138 mA or 2.5 watt maximum output)

SPECIFICATIONS

Electrical Requirements

Power Supply

Supply voltage

Regulated 24 VDC +/- 10% << 0.2 volts ripple

Regulated 22 to 26 VAC

Supply voltage must be 3 volts higher than desired output for ARM/B2

Supply current

200 mA maximum

Regulated Power Output (for user)

20 VDC +/- 10%

30 mA maximum

Field Adjustable Ranges (with 15 turn potentiometers)

Input

Voltage Range	0 to 35 VDC (standard) 0 to 18 VDC (optional ARM/B2)
Current Range	0 to 44 mA
Input Impedence	Current = 250 ohms Voltage = 1,000,000 ohms

Output

Voltage Range	0.25 VDC minimum 20 VDC maximum (standard) 18 VDC maximum (optional ARM/B2)
Accuracy	1%
Power Range	44 mA maximum (standard) 2.5 watts maximum (optional ARM/B2) Signal Gain 1 to 25 times (standard) depending on input value Signal Gain 1 to 18 times (optional ARM/B2) depending on input value
Signal Attenuation	0 to 100 %
Signal Offset	+/- 0.25 to 20 volts (standard) (+/- 0.25 to 18 volts (optional ARM/B2)
Signal Inversion (Reverse Acting)	20 to 0.25 volts (standard) (18 to 0.25 volts (optional ARM/B2)
Load Impedance	Current = 750 ohms @ 20 mA Voltage = 3300 ohms @ 20 volts +/- 10% 400 ohms @ 10 volts +/- 10% ARM/B2 minimum load not to be less than 20 ohms

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 deg F
Storage Temperature	-20 to 150 deg F
Operating Humidity	10% to 95% non-condensing

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