

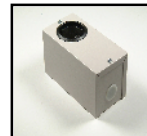
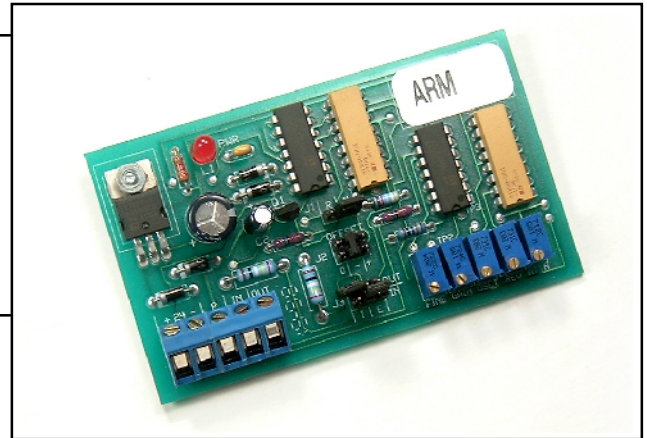


FEATURES

- 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.

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.