

ANALOG CURRENT/VOLTAGE RESCALING MODULE

- Field Selectable Ranges
- Reverse or Normal Acting Output
- LED Power Indicator
- Compact and Economical
- Snap Track Mounted



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 rescaling module which accepts an analog voltage or current and rescales it to another voltage or current. Several preset ranges are jumper selectable. Trimmer potentiometers can then 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. The offset of the output can be adjusted anywhere from +/- .25 to +/- 20 volts.

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.

ORDERING DATA

Specify: ARM

ENERCORP

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TECHNICAL DATA

Supply 24 VDC +/- 10%, 22 to 28 VAC, 200 mA max

User Output 20 VDC, 30 mA max field adjustable with 15 turn pots

Input
Voltage Range 0 VDC min 35 VDC max
Current Range 0 mA min 44 mA max
Input Impedence Current=250 ohms
Voltage=1 Mohms

Output
Voltage Range 0.25 VDC min 20 VDC max
Current Range 1.0 mA min 44 mA max
Signal Gain 1 to 25 times
Signal Attenuation 0 to 100 %
Signal Offset +/- 0.25 to 20 volts
Signal Inversion (Reverse Acting) 20 to 0.25 volts
Load Impedence Current = 750 ohms @ 20 mA
Voltage = 5000 ohms @ 20 volts

Mechanical Requirements
Dimensions 3.25" L x 2.25" W x 1.5" H
Weight 2.0 oz
Mounting Furnished with 3.25" length of 2.25" wide snap track

Environmental
-20 to 150 deg F
10 to 95%RH non-condensing

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