

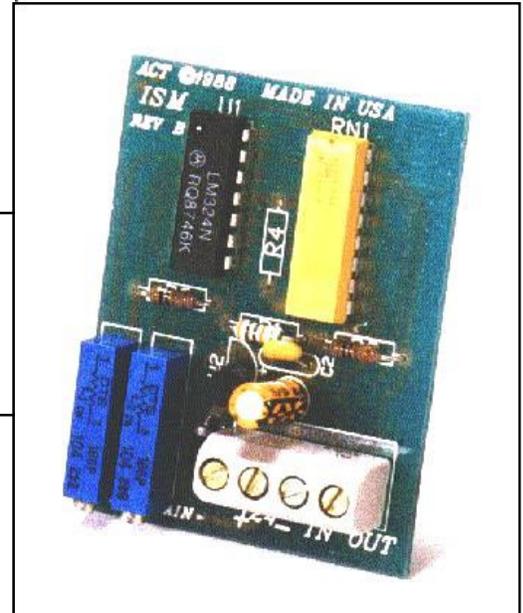
**FEATURES**

- Adjustable Gain and Offset
- Compact and Economical
- Mounts in Snap Track or ENC1 Enclosure

**APPLICATIONS**

- Current/Voltage Conversion to 0 to 5 VDC Ranges
- Rescale sensor outputs to popular Building Automation System inputs

**PRODUCT DESCRIPTION**



The ISM is an operational amplifier circuit that can offset and amplify an analog voltage or current signal. The ISM takes this analog voltage or current input signal and rescales it to a 0 to 5 VDC output. The ISM is also capable of accept-

ing analog voltage or current inputs and converting them to narrow signal spans within the 0-5 VDC range (see sample of custom ranges on page two).

**ORDERING INFORMATION**

Specify: **ISM** \_\_\_\_\_ **Input** and \_\_\_\_\_ **Output** with \_\_\_\_\_ **ENC1 Enclosure?**  
(Factory calibration required)

**SPECIFICATIONS**

**Electrical Requirements**

*Power Supply*

Supply Voltage	Regulated 24 VDC +/- 10% < 0.2 volts ripple
	Regulated 22 to 28 VAC
Supply Current	20 mA maximum

*Input*

Voltage Range	0 to 20 VDC
Current Range	0 to 20 mA
Input Impedances	Voltage input : >100,000 ohms Current input : 250 ohms

*Output*

Voltage Range	0 to 5 VDC
Gain	1 to 5 times Input Span
Signal Attenuation	50%, others optional
Signal Offset	+/- 0 to 4 volts
Accuracy	2%

## Mechanical Requirements

### *Connections*

Wire Size

Up to one 14 gauge maximum

Terminal type

Captive screw, moving clamp design in nickel plated copper alloy

### *Dimensions*

2.0" L x 2.25" W x .5" H

### *Weight*

1.0 oz

### *Mounting*

Furnished with 2.0" length of 2.25" wide snaptrack (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

## Custom Ranges available:

4-20mA to 2.554-3.109 VDC

4-20mA to 2.732-3.332 VDC

**Specifications may change without notice to improve product performance or reliability.**

**Call for Other Calibration Ranges and Versions.**