



INSTALLATION

READ THESE INSTRUCTIONS BEFORE YOU BEGIN INSTALLATION.

Ground yourself before touching board. Some components are static sensitive.

MOUNTING:

Circuit board may be mounted in any position. If circuit board slides out of snap track, a non-conductive "stop" may be required.

Use only fingers to remove board from snap track. Slide out of snap track or push against side of snap track and lift that side of the circuit board to remove. Don't flex board. Use no tools.

POWER CONNECTIONS:

- 1) 24 VDC - with power off, connect 24 volt DC power supply to "+24" and "-24" terminals on the board.

24 VAC - with power off, connect one transformer secondary leg to the "+" terminal and the other to the "-" terminal on the board, along with signal input and signal output common. Check the wiring configuration of any other loads that may be connected to this transformer. Any field device connected to this transformer must use the same common. If you are not sure of other field device configuration, use separate transformers.

- 2) If the 24 volt AC (or DC) power is shared with devices that have coils such as relays, solenoids, or other inductors, each coil must have a diode, MOV, Transorb, or other spike snubbing device across each of the shared coils. Without these snubbers, coils produce very large voltage spikes when de-energizing that can cause malfunction or destruction of electronic circuits.



- 3) The secondary voltage should be isolated from earth ground, chassis ground, and neutral leg of the primary winding. Grounding should be to the system common only. If you do not follow these procedures improper operation can result.
- 4) You should measure the actual voltage output of the secondary. If the output is not fully loaded you may read a higher voltage than the circuit board can handle.

Install dropping resistor as shown in Figure A on page 1 if current input to the ISM is desired.

CALIBRATION AND CHECKOUT

The ISM is designed to accept an analog voltage or current signal and output 0-5 VDC, plus many smaller signal spans within that output range.

ISM is factory calibrated to your specification when ordered. If field re-adjustment is required, contact factory for calibration details.

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|--------------------|----------------------------|------------------------|
| Power Consumption: | 20 mA max | Input Impedance: |
| Input Ranges: | 0 to 20 Vdc and 0 to 20 mA | Voltage: >100,000 ohms |
| Output Range: | 0 to 5 Vdc | Current: 250 ohms |