



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. Do not flex board or use tools.

POWER CONNECTIONS:

- 1) 24 VAC - with power off, connect 24 VAC transformer to the board. 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 power is shared with devices that have coils such as relays, solenoids, or other inductors, each coil must have a 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.

FUNCTION SELECTIONS

STEP 1) INPUT TYPE

Set jumper block J1 for 0-5 Volts, 0-10 Volts, or 0-20 milliamps input signal. See Figure A on page 1 for details.

STEP 2) OUTPUT TYPE

Set jumper block J2 and J3 for 0-5 Volts, 0-10 Volts, or 0-20 milliamps output signal. See Figure B on page 1 for details.

CALIBRATION AND CHECKOUT

The AIM1 is factory calibrated as follows, unless otherwise specified: 0-5 Volts Input Signal
1:1 Input to Output Signal Ratio, 0-5 Volts Output Signal

STEP 3) WIRING CONNECTIONS (for "source" input and output)

With the power OFF, make the following connections:

Connect a 24 VAC power supply to the 24 VAC terminals of the AIM1.

For inputs from powered current devices, and voltage input signals, connect signal common (-) to the I3 signal input terminal of the AIM1, and the signal positive (+) to the I2 signal input terminal of the AIM1.

For 2-wire current inputs to AIM1 requiring power see Figure C on page 1 for hook-up details.

Connect the output signal common (-) terminal O3 and the output signal positive terminal O2 to their respective terminals on the controlled device.

For current "sink" output from AIM1, see Figure D on page 1 for hook-up details.

STEP 4) POWER UP

Turn on the 24 VAC power supply. Both Primary Power (PRI POWER) and Secondary Power (2ND POWER) LED indicators on the AIM1 will light.

STEP 5) OPERATION

The AIM1 will now accept an input signal and produce an isolated and proportional output signal. (Example, a 5.0 volt input signal will produce a 5.0 (+/- .05 volts) volt DC output signal.)

Power Consumption:	100mA max.
Input Impedance:	0-5 Vdc, 0-10Vdc <20,000 ohm 0-20 mA/250 ohm
Output Impedance:	Voltage-5000 ohm min Current-500 ohm max