



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) 120 VAC - with power off, connect 120 VAC power supply.
- 2) If the 120 VAC power is shared with devices that have coils such as relays, solenoids, or other inductors, each coil must have a Metal Oxide Varistor, 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.



WIRING

The AIM3 is factory set as follows, unless otherwise specified: Voltage input signal, 0-5V (source)
1:1 Input to Output Signal Ratio, Voltage Output Signal, 0-5V (source)
AIM3 input and output ranges as well as offset, can be selected by jumper shunt in the field.

STEP 1) WIRING CONNECTIONS

With the power OFF, make the following connections:

Connect a 120 VAC power supply to the "Supply 120 VAC" terminals of the AIM3. Connect the input signal common to the IN (-) terminal of the AIM3, and the input signal positive to the IN (+) terminal of the AIM3.

Connect the OUT signal common (-) and the OUT signal positive (+) to their respective terminals on the controlled device.

SETTING AIM3 INPUT

Set Jumper Shunt J1 and J2 for input signal ranges and offset. See chart on page 1.

SETTING AIM3 OUTPUT

Set Jumper Shunt J3 and J4 for output signal ranges and offset. See chart on page 1.

POWERUP AND CHECKOUT

STEP 2) POWER UP

Turn on the 120 VAC power supply. Both power indicators on the AIM3 will light.

STEP 3) OPERATION

The AIM3 will now operate according to the standard settings from the factory or settings made by jumper selection. If no changes from the factory settings were made, the AIM3 will accept a 0 to 5 volt DC input signal and produce an isolated and proportional 0 to 5 volt DC output signal. For example, a 3.50 volt input signal will produce a 3.50 volt DC output signal.

Power Consumption:	50 mA maximum
Signal Input:	
Current/Impedance:	0 to 20 mA DC, 4 to 20 mA DC/249 ohms \pm 1%
PWM Current Range/Impedance:	0 to 1 mA DC Factory set at 3134 ohms \pm 1%
Voltage Ranges/Impedance	0 to 5 VDC or 1 to 5 VDC/Greater than 5,000,000 ohms :
Voltage Ranges/Impedance:	0 to 10 VDC or 2 to 10 VDC/20,000 ohms
Signal Output:	
Current Ranges:	0 to 20 mA DC or 4 to 20 mA DC
Maximum Load Impedance:	750 ohms
Voltage Ranges (preliminary):	0 to 5 VDC or 1 to 5 VDC
Minimum Load Impedance:	500 ohms
Voltage Ranges (preliminary):	0 to 10 VDC, 2 to 10 VDC
Minimum Load Impedance:	1,000 ohms
Accuracy (all but 2 to 10 V range):	Less than or equal to 1% of output span
Accuracy (2 to 10 V range):	Less than or equal to 1.5% of output span
Full Scale Resolution:	256 steps without offset, 205 steps with offset
Isolation	Capable of withstanding 500 VAC (rms) for a minimum of 1 minute from power to input, input to output, and output to power.