

Analog Current or Voltage Rescaling Module

FEATURES

- **Re-scalable Input and Output**
- 600 VAC / 1500 VDC analog optical isolation
- Selectable for voltage or current (input and output)
- On-board 24 VAC Isolation Transformer
- LED indicators for incoming and outgoing power supply
- Snap-track mounting

APPLICATIONS

- Ground loop isolation
- Variable frequency motor drive isolation
- Grounded electric actuator isolation
- Fluorescent light dimmer isolation
- General analog signal input and output isolation



PRODUCT DESCRIPTION

The AIM2 optically isolates the analog (voltage or current) signal to the device being controlled. The AIM2 will accept any input signals between 0 and 20 volts, or 0 and 20 mA, and output any signal within those ranges.

The AIM2 has preset or adjustable inputs, and preset or adjustable outputs, that can be either

voltage or current. The current signals on the input or output, can be either sink or source.

The AIM2 requires one external 24 VAC transformer for power. It has an on-board 24 VAC isolation transformer to supply power to the isolated output. The unit has LED status indicators for both power supplies.

SPECIFICATIONS

Electrical Requirements

Power Supply

Supply Voltage	24 VAC +/-10%
Supply Current	200 mA. maximum

Input (Current may be sink or source)

Signal Input - Presets ranges:	0 to 5 vdc	1 to 5 vdc	0 to 1 vdc
	0 to 10 vdc	2 to 10 vdc	
	0 to 20 mA	4 to 20 mA	0 to 1 mA
Adjustable Voltage Span:	1 volt (minimum) to 20 volts (maximum)		
Adjustable Voltage Offset:	From 0 to 20 volts		
Adjustable Current Span:	4 mA (minimum) to 20 mA (maximum)		
Adjustable Current Offset:	From 0 to 20 mA		
Input Impedance	Voltage:	9,500 ohm	
	Current:	250 ohm +/-1%	

Output (Current may be sink or source)

Signal Output - Preset ranges:	0 to 5 vdc	1 to 5 vdc
	0 to 10 vdc	2 to 10 vdc
	0 to 20 mA	4 to 20 mA
Adjustable Voltage Span:	1 volt (minimum) to 20 volts +/- 1 volt (maximum)	
Adjustable Voltage Offset:	From 0 to 10 volts	
Adjustable Current span:	0 mA (minimum) to 20 mA (maximum)	
Adjustable Current Offset:	From 0 to 20 mA	
Output Impedance	Voltage:	5000 ohm
	Current :	500 ohm
Accuracy	+3%	
Linearity	+1%	

Mechanical Requirements

Connections

Wire Size	Up to one 14 gauge maximum
Terminal Type	45° Captive screw, box clamp design in nickel plated copper alloy
Dimensions	3.25" W x 4.60" L x 1.20" H
Weight	5 oz.
Mounting	Furnished with 4.6" length of 3.25" wide snap track

Environmental Requirements

Operating Temperature	-20 to 150 degrees F
Operating Humidity	10 to 95% non-condensing

Specifications may change without notice to improve product performance or functionality.