



# 6N1-ISO

## 6 Analog / Digital Inputs to 1 Analog Output

The 6N1-ISO is a microprocessor controlled interface designed to provide maximum flexibility with a minimum of cost. With a variety of standard inputs, the 6N1-ISO provides the user with the ability to interface several devices to a single analog output. The 6N1-ISO can average two to six inputs, output the highest of two to six inputs, output the lowest of two to six inputs, output the sum of two to six inputs, or output the difference of two inputs. Input ranges are jumper selectable and all modes and analog outputs are DIP switch selectable. The output

signal is optically isolated from the input signals. The 6N1-ISO also accepts up to 6 digital inputs (binary sequence) and outputs a proportional analog signal. The power output terminal can be used for power if the inputs are only contact closures.

**Applications:** Coldest Zone Hot Deck Reset, Signal Selector

The 6N1-ISO is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, [www.workaci.com](http://www.workaci.com).

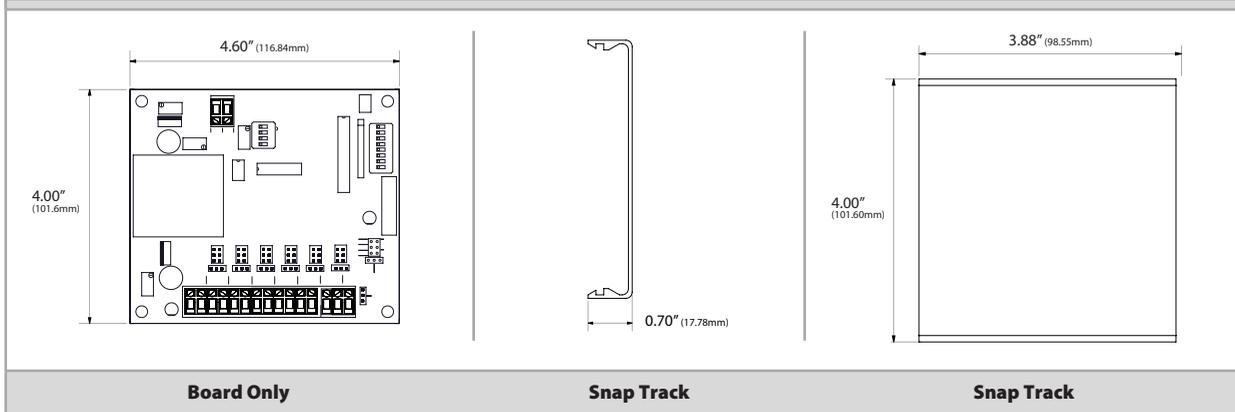
### PRODUCT SPECIFICATIONS

<b>Supply Voltage:</b>	24 VAC (+/- 10%), 50/60 Hz
<b>Supply Current:</b>	255 mA maximum
<b>Power Output:</b>	24 VDC or 15 VDC (Jumper Selectable)
<b>Power Output (Supply Current):</b>	100 mA maximum
<b>Input Voltage Signal Range (@ Impedance):</b>	0 to 5 VDC @ 1MΩ, 0 to 10 VDC @ 20,000Ω, 0 to 20 VDC @ 10,000Ω
<b>Input Current Signal Range (@ Impedance):</b>	0-20 mA @ 249Ω
<b>Binary Input Mode (@ Impedance):</b>	15 VDC, 24 VDC or 24 VAC +/-10% @ 100,000Ω
<b>One Analog Signal Output (@ Impedance):</b>	0-5 VDC @ 1000Ω   0-10 VDC @ 1000Ω   0-20 VDC @ 1000Ω   0-20 mA @ 500Ω maximum
<b>Output Signal Accuracy:</b>	+/- 2% of full scale
<b>Resolution (Analog/Binary):</b>	64 steps of resolution
<b>Product Functions:</b>	Average, Highest, Lowest, Sum, Difference
<b>Connections:</b>	90° Pluggable Screw Terminal Blocks
<b>Wire Size:</b>	16 (1.31 mm <sup>2</sup> ) to 26 AWG (0.129 mm <sup>2</sup> )
<b>Terminal Block Torque Rating:</b>	0.5 Nm (Minimum); 0.6 Nm (Maximum)
<b>Operating Temperature Range:</b>	35 to 120°F (1.7 to 48.9°C)
<b>Operating Humidity Range:</b>	10 to 90% non-condensing
<b>Storage Temperature:</b>	-20 to 150°F (-28.9 to 65.5°C)
<b>Snaptrack Material:</b>	Polyvinyl Chloride (PVC)
<b>Snaptrack Flammability Rating:</b>	UL94 V-0
<b>Product Dimensions:</b>	(L) 4.00" (W) 4.60" (H) 1.00" (101.6 x 116.84 x 25.4 mm)
<b>Product Weight:</b>	0.60 lbs. (0.27 Kg)
<b>Agency Approvals:</b>	RoHS2, WEEE





**DIMENSIONAL DRAWING**



**STANDARD ORDERING**

Model # Example: **6N1-ISO** -OR- **111750**

Model #	Item #	Description
<b>6N1-ISO</b>	111750	6 Analog / Digital Inputs to 1 Analog Output

**ACCESSORIES**

Model # Example: **A/DO008** -OR- **142583**

Model #	Item #	Description
<b>A/DO008</b>	142583	Transient Voltage Suppressor, Bi-directional, 56 VAC/DC, 1500W
<b>A/DRC 3.88 X 4.0</b>	142622	DIN Rail Adapter Kit

