

## FEATURES

- Multiple Inputs  
Up to Six Analog or up to Six Digital (Binary Sequence) Inputs
- Selectable Output can:
  - Read Two to Six Inputs and Output the Average
  - Read Two to Six Inputs and Output the Lowest
  - Read Two to Six Inputs and Output the Highest
  - Read Analog Input One and Two and Output the Difference
- LED Power and Status Indicators
- Input and Output is optically isolated
- Selectable modes of operation using jumpers and DIP Switches
- 24 VAC Powered
- Equipped with plug-in terminal blocks



## APPLICATIONS

- Coldest Zone Hot Deck Reset
- Warmest Zone Cold Deck Reset
- Reset VAV Makeup Air from multiple "fume hoods" or exhaust fans static pressure
- Signal Selector

## PRODUCT DESCRIPTION

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 the 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 or output the difference of two inputs. Input ranges are jumper

selectable and all modes and analog output are DIP switch selectable. Output signal is optically isolated from 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.

## ORDERING INFORMATION

Specify: 6N1-ISO \_\_\_\_\_

## SPECIFICATIONS

### Electrical Requirements

#### Power Supply

Supply Voltage	24 VAC (+/- 10%), 50/60 Hz
Supply Current	255 mA maximum

#### Power Output

Power Out Terminal	24 VDC or 15 VDC (Jumper selectable) 100 mA maximum
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### *Input Mode (Six Analog)*

Voltage Range/Impedance	0 to 5 VDC @ 1M ohms 0 to 10 VDC @ 20,000 ohms 0 to 20 VDC @ 10,000 ohms
Current Range/Impedance	0-20mA @ 249 ohms (All ranges jumper selectable)

### *Input Mode (Binary)*

Six Digital	15 VDC, 24 VDC or 24 VAC (all +/-10%) @ 100,000 ohms
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### *Output*

One Analog Output	0-5Vdc @ 1000 ohms 0-10Vdc @ 1000 ohms 0-20Vdc @ 1000 ohms 0-20mA @ 500 ohms maximum All ranges DIP switch selectable Adjustable Range available through custom calibration No Offset available Short Circuit protection provided
Analog Mode Output Resolution	+/- 2% of full scale
Binary Mode Output Resolution	64 steps of resolution

## **Mechanical Requirements**

### *Connections*

Wire Size	Up to one 14 AWG maximum
Terminal Type	90° Plug-in Terminal Blocks with 5mm pin spacing

### *Dimensions*

4.0" L (10.16 cm) x 4.625" W (11.75 cm) x 1.0" H (2.54 cm)

### *Weight*

6.6 oz (187grams)

### *Mounting*

Furnished with 4.0" (10.16 cm) length of 4.0" (10.16 cm) wide snap track, 4 mounting holes

## **Environmental Requirements**

<i>Operating Temperature</i>	32 to 120 deg F (0 to 48.9 deg C)
<i>Storage Temperature</i>	-40 to 150 deg F (-40 to 65.5 deg C)
<i>Operating Humidity Range</i>	10% to 90% non condensing

**Specifications may change without notice to improve product performance.**

EU Commission Directive 2002/95/EC (RoHS) Compliant



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