



MODEL 831-MULTIPLE INPUT SIGNAL ISOLATOR



(2 i/p, 2o/p, Din rail type)



(3 i/p, 3 o/p, Wall / panel mount)

Introduction

Pantech's Multiple Input Signal Isolator, model 831 is an ideal instrument for accepting various types of inputs from field and feed the converted signals to a control room instruments, thus accepting upto three standard inputs at a time. Input to the Isolator can be from thermocouple, RTD, two-wire transmitter, non two-wire transmitter, mV or a voltage source. The instrument accepts upto three inputs in any combination and range, and provides corresponding isolated outputs of 4 – 20 mA DC/ 1 – 5 V DC or like. All the three inputs are isolated with each other and outputs. Inputs are isolated from the outputs. And all the outputs are isolated from each other.

Low drift precision components are used for long term accuracy of the instruments. All instruments undergo a burn-in for better reliability. The instrument can be mounted on a wall or back of panel, its terminations are provided in front.

Specifications

Inputs per channel (Max. 3 nos.)

- 1)Current, 4 – 20 mA DC/ 0 – 20 mA DC
0-1 Amp. / 0-5 Amp. / others
- 2)Voltage, 1 – 5 V DC/ 0 – 10 V DC / others
- 3)RTD Pt 100 / Resistances
- 4)T/C Type J, K, R, S, T
- 5)0-1 / 0-5 Ampere
- 6)Specials (on factory confirmations)

Input impedance

200 K for Voltage, mV & T/C inputs
250 for current inputs

Cold junction compensation

Built in for T/C input.

Corresponding outputs per channel (Max. 3 nos.)

- 1)Isolated / Non Isolated 4 – 20 mA DC
- 2)Isolated / Non Isolated 0-10 V DC
- 3)Other types on factory confirmations

Isolation type

Opto and Galvanic .. @ 1500 V DC minimum

Analog output load capability

800 maximum

Output fine tune

By on PCB potentiometers

Output accuracy

+/- 0.1% of span

Transmitter power

3*24 V DC for current inputs

Power supply

- 1)24 V DC
- 2)110 V AC, 50 Hz, +/- 10%
- 3)230 V AC, 50 Hz, +/- 10%
- 4)90-270 V AC – SMPS
- 1)Specials on factory confirmations

Power consumption

6 VA max.

Ambient temperature

0 – 50 C.

Storage temperature

0 – 70 C.

Humidity

90% RH (non-condensing)

Enclosures

Weatherproof Panel mounted
Field mounted – WP/IP65/Flameproof

Mounting

Panel / Wall / Field / Dinrail / Eurocard

Following table describes the availability of several models with the company right now. A general preview is only presented to the user. The dimensional and display sizes are the relational virtues of each other and hence the user is always requested to clarify the specifications of instrument with the factory prior to placement of the order.

On confirmation with factory, changes of all types in all specifications is possible.

Model	Mounting & Dimension in mm (H * W * D)	Inputs	Power	Type of o/p	No. of i/p and o/p
831	Panel	96*96*150	All	All	Max. 3
	DIN	70*100*110	All	All	Max. 2
	Wall	195*70*115	All	All	Max. 3
	Euro	130*20*120	All	24 V DC	Max. 2



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Ordering Information for each of channel

Please confirm the availability of the model by cross checking the table mentioned on the backside.

Basic Model No. (Specified by first 3 digits)

831 -Multiple Input Signal Isolator

Enclosure / Mounting

(Specified by letter following 3 digits)

P-Weatherproof - Panel
R-Weatherproof -Din Rail
E-Weatherproof - Euro card
W-Weatherproof - Wall
F-Flame proof – Wall / Field
I-IP65 grades – Wall / Field
S-Specials

Input 1 (Specified by first digit after the letter)

1-4 – 20 mA DC
2-1 – 5 V DC
3-RTD Pt. 100
4-T/C J type
5-T/C K type
6-T/C R type
7-T/C S type
8- T/C T type
S- Specials / Others

Input 2 (Specified by second digit after the letter)

1-4 – 20 mA DC
2-1 – 5 V DC
3-RTD Pt. 100
4-T/C J type
5-T/C K type
6-T/C R type
7-T/C S type
8- T/C T type
S- Specials / Others

Input 3 (Specified by third digit after the letter)

1-4 – 20 mA DC
2-1 – 5 V DC
3-RTD Pt. 100
4-T/C J type
5-T/C K type
6-T/C R type
7-T/C S type
8- T/C T type
S- Special
0-None
NOTE: Please specify the i/p ranges for T/C & RTD.

Power option (Specified by the fourth digit)

1-24 V DC
2-110 V AC
3-230 V AC
4-90-270 V AC
S-Specials

Type of output option (Specified by the fifth digit)

(No. of outputs = No. of inputs)

1-4 – 20 mA DC
2-0 – 20 mA DC
3-1 – 5 V DC
4-0 – 10 V DC
5-Special

Option (Specified by the last digit)

0-None



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