



**MODEL 834 – SIGNAL COMPUTATION MODULE  
( Hi / Low / Average of the inputs computing module )**

**Introduction**

PANTECH'S Signal Computation module, Model 834 is designed to accept 2 or more signals ( maximum 10 nos. ) at the input terminal strips. The output can be a logical function ( HI / LO / AVERAGE / SPECIALS ) of the inputs. These input and output signals can be of LINEAR CURRENT ( 4-20 mA DC like ) or LINEAR VOLTAGES only. This output signal hence obtained can be ISOLATED or NON ISOLATED. Low drift precision components are used for long term accuracy of the instruments. All instruments undergo a burn-in for better reliability. The instrument is available in different formats and sizes. Information regarding specification and size is given below.

**Specifications**

**Inputs ( Maximum 10 nos. )**

- 1) Current, 4 – 20 mA DC/ 0 – 20 mA DC
- 2) Voltage, 1 – 5 V DC/ 0 – 10 V DC
- 3) Specials – On factory confirmations

**Input impedance**

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

**Signal Computation Logic**

- Lowest of all the input signals
- Highest of all the input signals
- Average of all the input signals
- Specials

**Analog output**

- 1) Isolated / Non Isolated 4 – 20 mA DC
- 2) Isolated / Non Isolated 0-10 V DC
- 3) Specials

**Isolation type**

Opto and Galvanic .. @ 1500 V DC minimum

**Analog output load capability**

800 maximum

**Output fine tune**

By front fascia potentiometers

**Transmitter powers**

24 V DC for current inputs

**Ordering Information**

**Basic Model No.** ( Specified by first 3 digits)+  
834 -Input Selector Module

**Mounting** ( Specified by letter following 3 digits)

- P-Panel
- R-Din Rail
- E-Euro card
- F-Field mount
- S-Specials

**Input** ( Specified by first digit following the letter)

- 1-mA DC // current inputs
- 2-V DC // voltage inputs
- S- Special/others
- Signal computation logic
- 1-Lowest of inputs
- 2- Highest of all inputs
- 3-Average of all inputs
- S-SPECIALS

**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
- 5) Specials

**Power consumption**

6 VA max.

**Ambient temperature**

0 – 50 C.

**Storage temperature**

0 – 70 C.

**Humidity**

90% RH (non-condensing)

**Enclosures**

Weatherproof, Flameproof and all other standard types

**Mounting**

Panel / Wall / Field / Dinrail / Eurocard

**Dimensions**

Standard and Specials

**Power option** ( Specified by the second digit)

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

**Type of output option** ( Specified by the fourth digit)

- 1-mA/V DC isolated
- 2-mA/V DC non-isolated
- S-Specials



( Din rail type )



( Din rail type )



**PANTECH INSTRUMENTS**



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