



(Din rail type)



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MODEL 838-COMPUTATION MODULE

Technical Catalogue

Introduction

Pantech's Computation Module, model 838 is designed to accept upto three inputs and provide a computed output of 4 – 20 mA DC capable of driving a load of upto 800 as per the equation

OUTPUT - (A + BX) * (C + DY) / (E + FZ) where A, B, C, D, E & F are constants and X, Y & Z are three inputs. The module accepts 4 - 20 mA DC signal from two wire and not two wire transmitters. The transmitter power supply to feed upto three two wire transmitters is available as option. The module also accepts 1 – 5 V DC signals.

The module is available in a wall-mounted housing. The modules can be powered from 110V AC or 230V AC or 24 V DC power sources. Power supply is isolated from rest of the electronics.

The modules incorporate low drift operational amplifiers and industrial grade components. Burn in of each module ensures long trouble free operation.

Specifications

Inputs * 3

1)Current, 4 - 20 mA DC/ 0 - 20 mA DC

2)Voltage, 1 – 5 V DC/ 0 – 10 V DC

3)Specials

Input impedance

200 K for voltage inputs

250 for current inputs

Analog output

1)Isolated 4 – 20 mA DC (Computed)

2)Non isolated 4 – 20 mA DC (Computed)

3)Specials

Analog output load capability

800 maximum with 4-20 mA type

Output accuracy

+/- 0.15% of span

Transmitter powers * 3

24 V DC for current inputs

Power supply

1)24 V DC

1)110 V AC, 50 Hz, +/- 10% 2)230 V AC, 50 Hz, +/- 10%

3)90-270 V AC - SMPS

4)Specials

Power consumption

4 VA max.

Ambient temperature

0 - 50 C

Storage temperature

0 - 70 C

Humidity

90% RH (non-condensing)

Weatherproof, Flameproof and all other standard types

Mounting

Panel / Wall / Field / Dinrail / Eurocard

Dimensions

Standard and Specials

Ordering Information

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

Basic Model No.

(Specified by first 3 digits)838 -Computation Module

Mounting (Specified by letter following 3 digits)

W-Wall mounted R-Din rail type

P-Panel type

F-Field

S-Others / Specials

Input (Specified by first digit following the letter)

1-4 - 20 mA DC

2-0 - 20 mA DC

3-1 - 5 V DC 4-0 - 10 V DC

S-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

5-Specials

Analog O/P Option (Specified by the third digit)

1-4-20 mA DC isolated

2-4-20 mA DC non-isolated

S-Specials

No. of O/P Option (Specified by the fourth digit)

1-1no. of output

2-2no. of output





PANTECH INSTRUMENTS

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