

PID Temperature Controller - Dual Display

PID-912, PID-712, PID-412

Features

- Multi Sensor Input - J/K or PT-100
- Economical & Easy to Use Model
- PID and ON-OFF Control Action
- 3 Digit 0.8inch* Bright LED Display with RED and WHITE color option in PID-912

TECHNICAL SPECIFICATION

INPUT SPECIFICATION:

	Input	Range
Input Types	J / K	J : 0 to 850°C, K : 0 to 999°C
	PT-100	PT-100: -50 to 400°C
	2W/3W	PT.1: -19.9 to 99.9°C
Resolution	1°C for (J,K), 0.1°C (PT-100)	
Indication Accuracy	±1% of FSD ± 1°C (FSD:- Full Scale Deflection)	

DISPLAY

Display	3 Digit, Two Line, 7 Segment LED, 0.8 inch in PID-912(Upper Display),
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DIMENSION:

PID-912	
Size (mm)	96 (H) x 96 (W) x 40 (D) mm
Panel Cutout	92 (H) x 92 (W) mm

PID-712	
Size (mm)	72 (H) x 72 (W) x 50 (D) mm
Panel Cutout	68 (H) x 68 (W) mm

PID-412	
Size (mm)	48 (H) x 48 (W) x 50 (D) mm
Panel Cutout	44 (H) x 44 (W) mm

CONTROL ACTION

Control Mode	PID or ON-OFF
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OUTPUT SPECIFICATION:

Output	1 Relay SSR
Relay Type	1C/O (NO-C-NC)
Rating	10A (Resistive Load)
SSR Drive Output	12V DC, 30mA DC (On - Off)

POWER SUPPLY:

Supply Voltage	100V to 270V AC, 50-60Hz
Power Consumption (VA Rating)	4VA @ 230V AC MAX

ENVIRONMENT CONDITION:

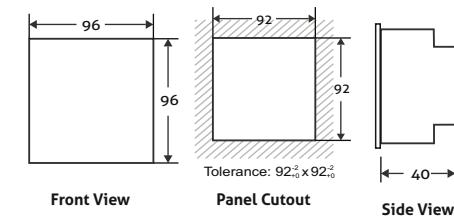
Operating Temp.	0°C to 55°C
Relative Humidity	UP to 95% RH (non-condensing)
Protection Level (As per request)	IP-65 (Front side) As per IS/IEC 60529 : 2001

KEY OPERATION

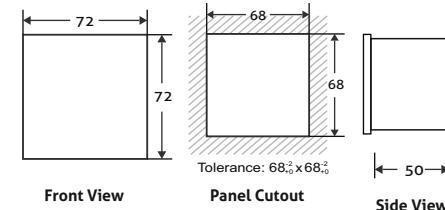
Key	Funtion
	SET Key (Long Press to Enter Set Point Menu)
	UP Key (To increase the value/navigate in menu)
	Down Key (To decrease the value/navigate in menu)
	Enter Key (To Enter the Menu / Exit the menu)
	Long Press DOWN KEY (To enter parameter configuration menu)

MECHANICAL DIMENSIONS

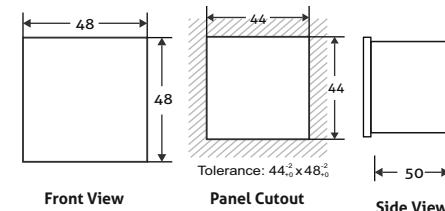
Dimensions for PID-912



Dimensions for PID-712

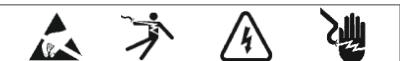


Dimensions for PID-412



Wiring Guidelines:

CAUTION:



1) To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.

2) Wiring shall be done strictly accordingly to the terminal layout with the shortest connection. Confirm that all connection are correct.

INSTRUMENT CONFIGURATION

ERROR CONDITIONS

- If the display shows below message



It means Input **Sensor Not Connected** or any error with connected sensor.

In such case please check the sensor connections

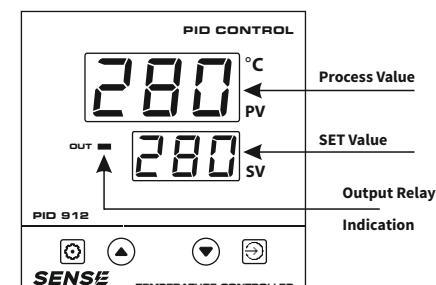
- If the display shows below message



This means Input **Sensor Reverse**;

In such case please check the sensor connections

FRONT PANEL DESCRIPTION



SAFETY PRECAUTIONS :

All safety related conditions, symbols and instruction that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

- Do not use the equipment if there is any mechanical damage
- Ensure that the equipment is supplied with correct voltage

If there is physical damage to the unit then do not use it.

Read complete instruction prior to installation and operation of the unit.

