

OPERATING MANUAL
UNIVERSAL TEMPERATURE CONTROLLER
PID 9611,7211,4811,4911

MISTURA

SPECIFICATION

AUXILIARY SUPPLY

Supply voltage	100 to 250V AC, 50-60Hz
Power consumption (VA RATING)	Approx. 7 VA @ 230V AC MAX

ENVIRONMENT CONDITION

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

OUTPUT SPECIFICATION

Relay/SSR	2 Nos./1 No
Rating	2-Relay (230V AC-10A) 1-SSR (12V-30mA)

DISPLAY

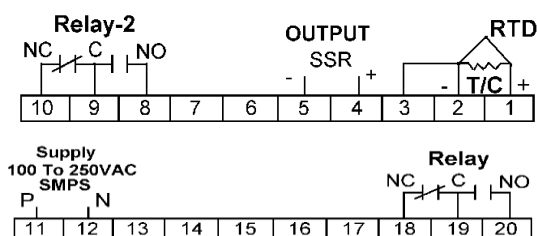
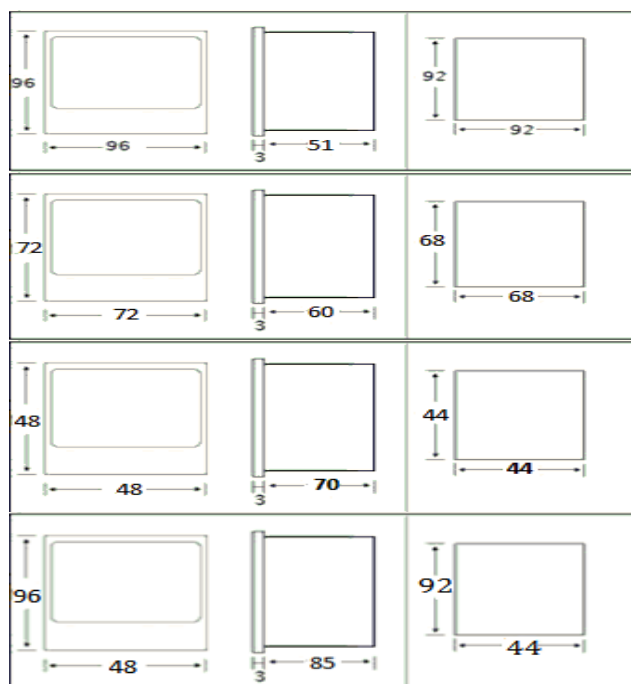
PID_9611	Upper: 4 Digit Seven Segment, 0.70" White Lower: 4 Digit Seven Segment, 0.50" Green
PID_7211	Upper: 4 Digit Seven Segment, 0.70" White Lower: 4 Digit Seven Segment, 0.50" Green
PID_4811	Upper: 4 Digit Seven Segment, 0.39" White Lower: 4 Digit Seven Segment, 0.32" Green
PID_4911	Upper: 4 Digit Seven Segment, 0.39" White Lower: 4 Digit Seven Segment, 0.32" Green

DIMENSION

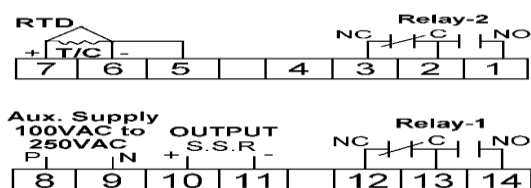
	Size (HxWxD)	Panel Cut-out
PID_9611	96 X 96 X 51 mm	92x92
PID_7211	72 X 72 X 60 mm	72x72
PID_4811	48X 48 X 70 mm	44x44
PID_4911	96X 48 X 85 mm	44x92

INPUT SPECIFICATION

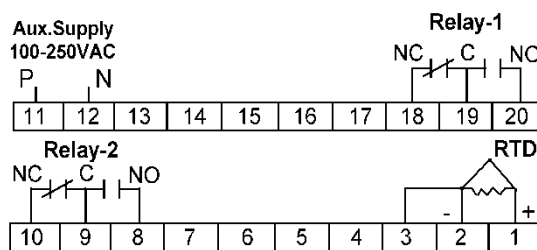
Sr.	INPUT	Range
1	TC-J	0 To 600 °C
2	TC-K	0 To 1200 °C
3	PT	-100 To 400°C
4	PT-1	-100.0 To 400.0°C
Indication Accuracy		±1% of FSD ± 1°C (FSD: full scale deflection)
Resolution		J,K,PT = 1°C PT.1 = 0.1°C



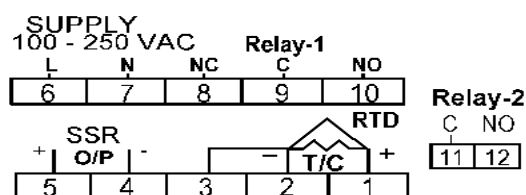
PID 9611



PID 7211

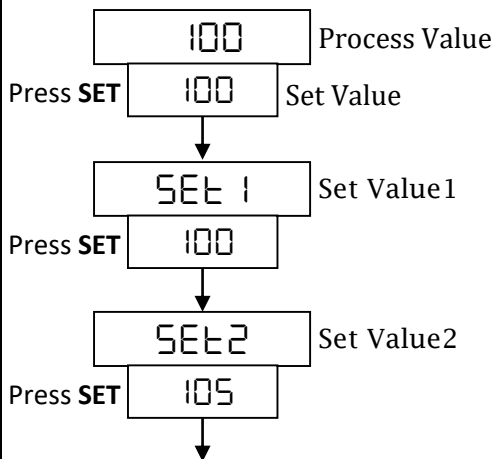


PID 4911V



PID 4811

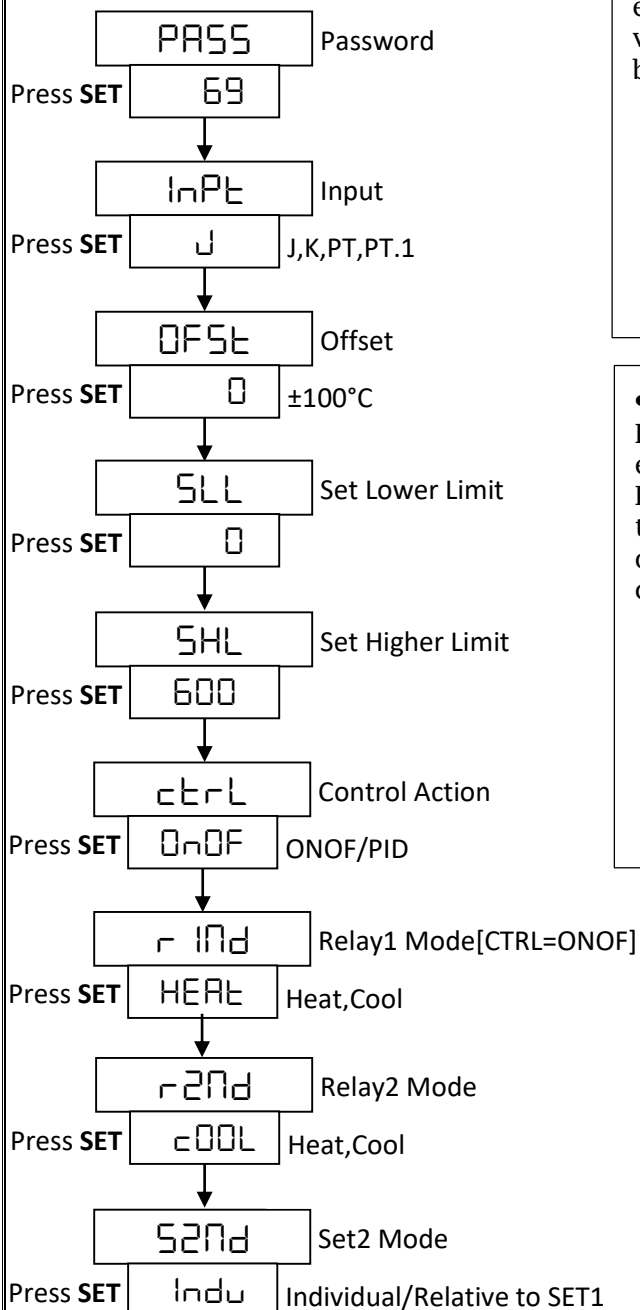
Set Point Setting:



Press ENT Key for Exit

Press SET Key for Program Menu

Basic Configuration:



Press ENT Key for Exit

Key Operations:

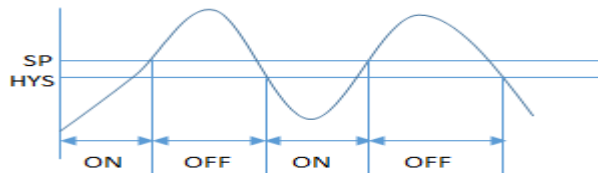
- Press SET Key 2 sec. to enter in programming mode.
- Press SET Key to go to next parameter.
- Use Up Or Down key to change value of parameter.
- Press ENT Key to save changes in setting & Exit.
- To start Auto-Tuning Press Up key for 6 sec. (In PID Mode).

PID Auto-Tuning:

- The Auto-tuning function automatically computes and sets the proportional band (P), integral time (I), Derivative time (D), and Cycle Time (CT) as per process characteristics.
- Press **UP (↑)** Key 6 sec. to start tuning (In PID Mode)

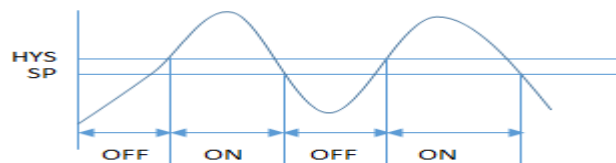
Heat Mode:

Initially Relay will be on condition. When Process value equals to Set Point Relay will turn off. When Process value equal to Set Point- Hysteresis then again Relay will be on.



Cool Mode:

Initially Relay will be off condition. When Process value equals to Set Point + Hysteresis Relay will turn on. When Process value equal to Set Point then again Relay will turn off. [if delay time used in cool mode. Relay will turn on when Process value equal to Set Point + Hysteresis & completion delay time.]



OR **Relay1 Mode[CTRL=ONOF]** **Relay2 Mode** **Auto Tune Percentage[CTRL=PID]**

Press SET **75**

