

OPERATING MANUAL

PROCESS TEMPERATURE CONTROLLER

PTC 9615

MISTURA

TECHNICAL SPECIFICATION

INPUT SPECIFICATION:

Sr.	INPUT		Range
1	TC-J	\downarrow	0 To 700 °C
2	TC-K	\overline{H}	0 To 1300 °C
3	TC-T	\overline{E}	0 To 350 °C
4	TC-R	\overline{r}	0 To 1650°C
5	TC-S	\overline{S}	0 To 1650°C
6	TC-E	\overline{E}	0 To 650°C
7	TC-N	\overline{n}	0 To 1250°C
8	PT	$\overline{P\overline{E}}$	-100 To 400°C
9	PT-1	$\overline{P\overline{E}.1}$	-100.0 To 400.0°C
10	0-10VDC	$\overline{0-10}$	-1999 To 9999
11	0-5VDC	$\overline{0-5U}$	-1999 To 9999
12	4-20mA	$\overline{4-20}$	-1999 To 9999
13	0-20mA	$\overline{0-20}$	-1999 To 9999
Indication Accuracy		$\pm 1\%$ of FSD $\pm 1^\circ\text{C}$ (FSD: full scale deflection)	
Resolution		J,K,T,R,S,E,N,PT-100 = 1°C	
		PT.1 = 0.1°C	
		0-10V DC,0-5VDC,0-20mA DC,4-20mA DC = 0.1,0.01,0.001,0.001	

OUTPUT SPECIFICATION:

Relay Output/ SSR Output (Factory Set)	
Relay/SSR	2
Relay Type	(NO-C)
Rating	Relay:10A, 230VAC/30V DC SSR: 12VDC,30mA
24VDC Transmitter supply	

AUXILIARY SUPPLY:

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

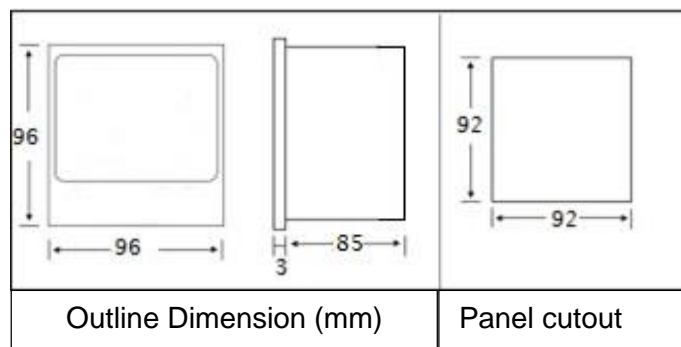
ENVIRONMENT CONDITION:

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

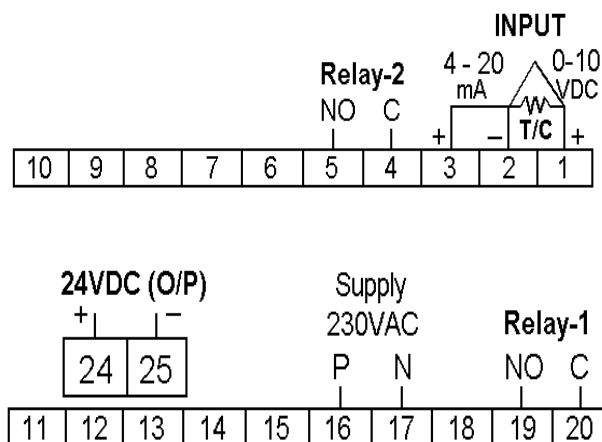
DIMENSION&DISPLAY:

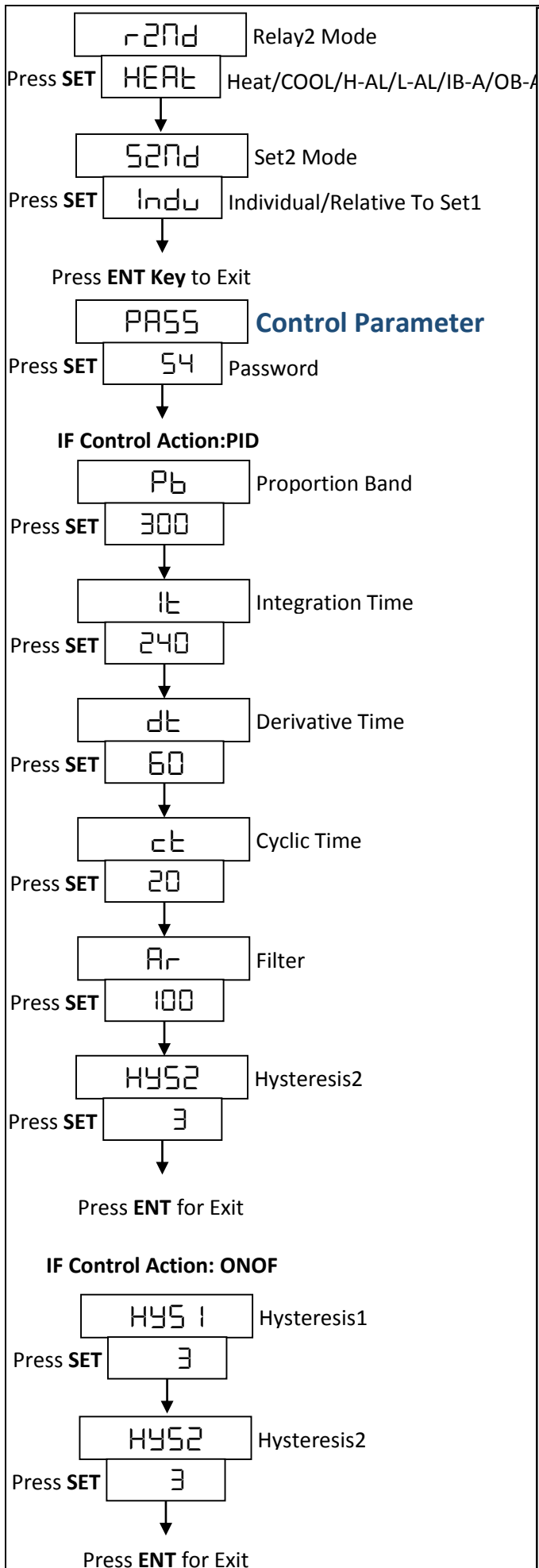
Size	96(H) X 96(W) X 85(D)/ Cutout 92(H) X 92(W)
Display	Upper: 4 digit, 7 segment, 0.70" White Lower: 4 digit, 7 segment, 0.50" Green

MECHANICAL INSTALLATION



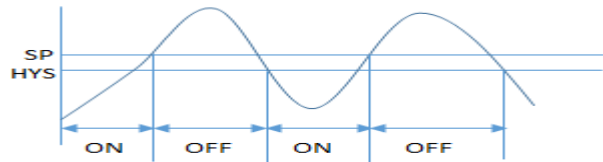
TERMINAL CONNECTION





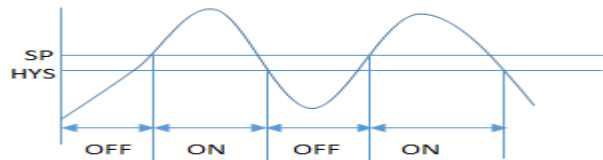
Relay1 & Relay2 Operating Modes

• Heat Mode:



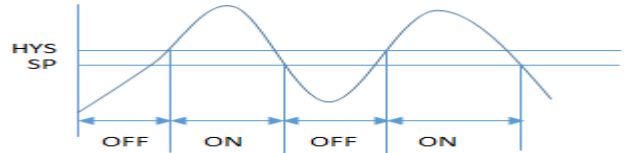
Initially Relay will be on condition. When Process value equals to Set Point Relay will turn off. When Process value equal to Set Point+Hysteresis then again Relay will be on.

• Cool Mode:



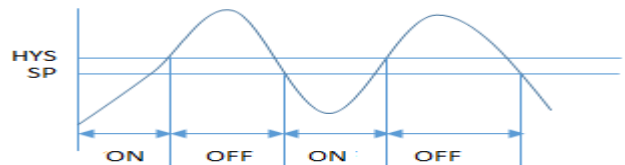
Initially Relay will be off condition. When Process value equals to Set Point Relay will turn on. When Process value equal to Set Point+Hysteresis then again Relay will turn off.

• High Alarm Mode [H-AL]:



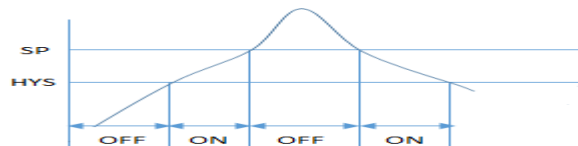
Initially Relay will be off condition. When Process value equals to Set Point + Hysteresis Relay will turn on. When Process value equal to Set Point then again Relay will turn off.

• Low Alarm Mode [L-AL]:



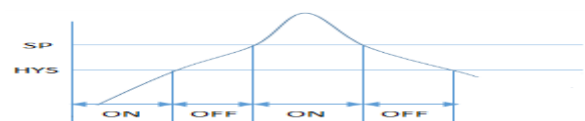
Initially Relay will be on condition. When Process value equals to Set Point + Hysteresis Relay will turn off. When Process value equal to Set Point then again Relay will turn on.

• In Band Alarm Mode [IB-A]:



Relay will be on between Set point & Hysteresis condition. If Set Point=100 & Hysteresis=3 than Relay on between 97to100

• Out Band Alarm Mode [OB-A]:



Relay will be off between Set point & Hysteresis condition. If Set Point=100 & Hysteresis=3 than Relay off between 97to100.