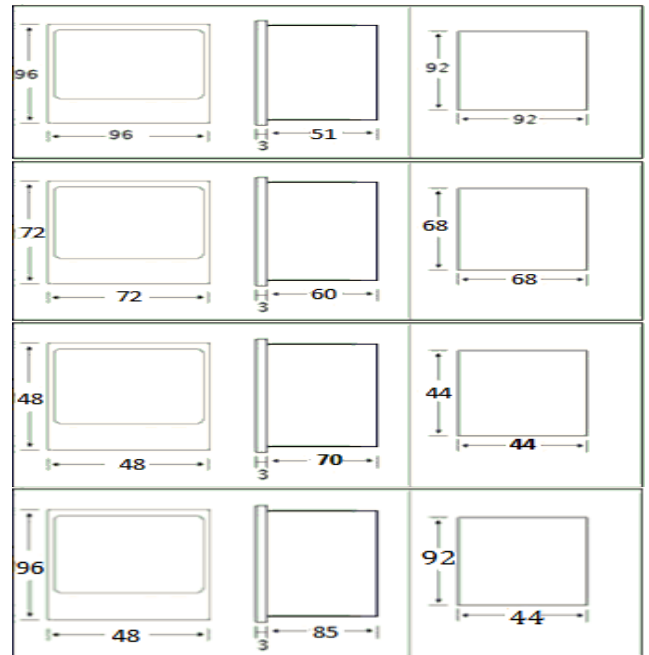


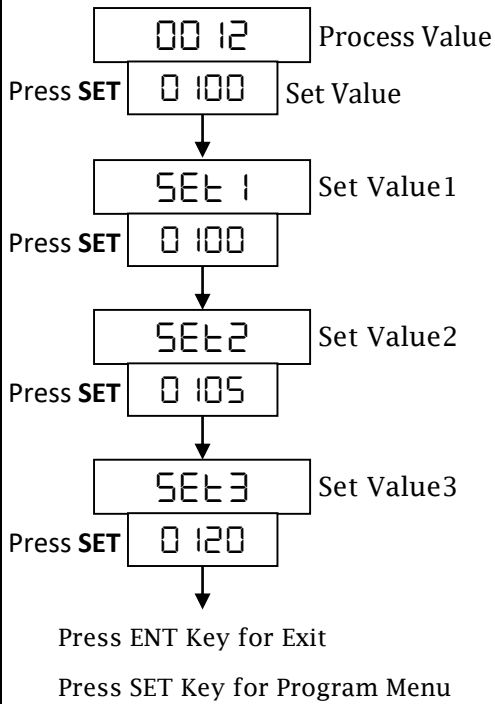
SPECIFICATION

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	3 Nos./1 No	
Rating	3-Relay (230V AC-10A) 1-SSR (12V-30mA)	
DISPLAY		
PID_9613	Upper: 4 Digit Seven Segment, 0.70" White Lower: 4 Digit Seven Segment, 0.50" Green	
PID_7213	Upper: 4 Digit Seven Segment, 0.70" White Lower: 4 Digit Seven Segment, 0.50" Green	
PID_4813	Upper: 4 Digit Seven Segment, 0.39" White Lower: 4 Digit Seven Segment, 0.32" Green	
PID_4913	Upper: 4 Digit Seven Segment, 0.39" White Lower: 4 Digit Seven Segment, 0.32" Green	
DIMENSION		
	Size (HxWxD)	Panel Cut-out
PID_9613	96 X 96 X 51 mm	92x92
PID_7213	72 X 72 X 60 mm	72x72
PID_4813	48X 48 X 70 mm	44x44
PID_4913	96X 48 X 85 mm	92x44

Sr.	INPUT		Range
1	TC-J	J	0 To 650 °C
2	TC-K	K	0 To 1250 °C
3	TC-T	T	0 To 350 °C
4	TC-R	R	0 To 1600°C
5	TC-S	S	0 To 1600°C
6	TC-E	E	0 To 600°C
7	TC-N	N	0 To 1150°C
8	PT	PT	-100 To 400°C
9	PT-1	PT.1	-100.0 To 400.0°C
Indication Accuracy		±1% of FSD ± 1°C (FSD: full scale deflection)	
Resolution		J,K,T,R,S,E,N,PT-100 = 1°C PT.1 = 0.1°C	



Set Point Setting:



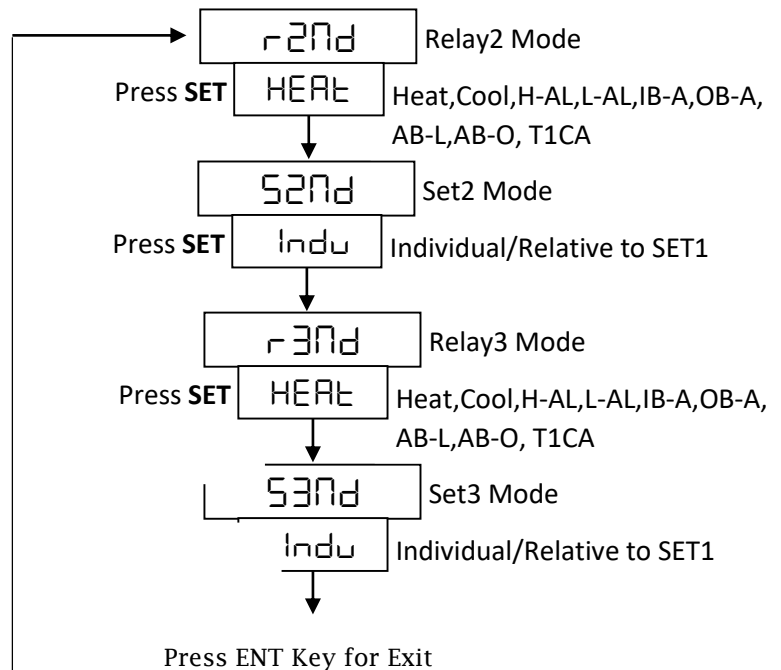
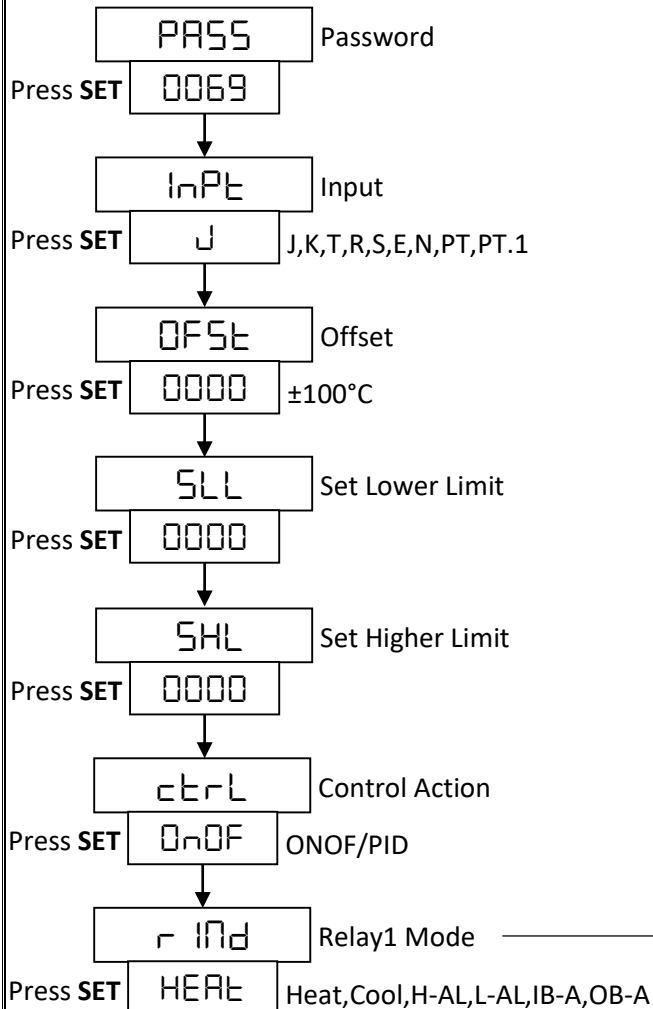
Key Operations:

- 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).

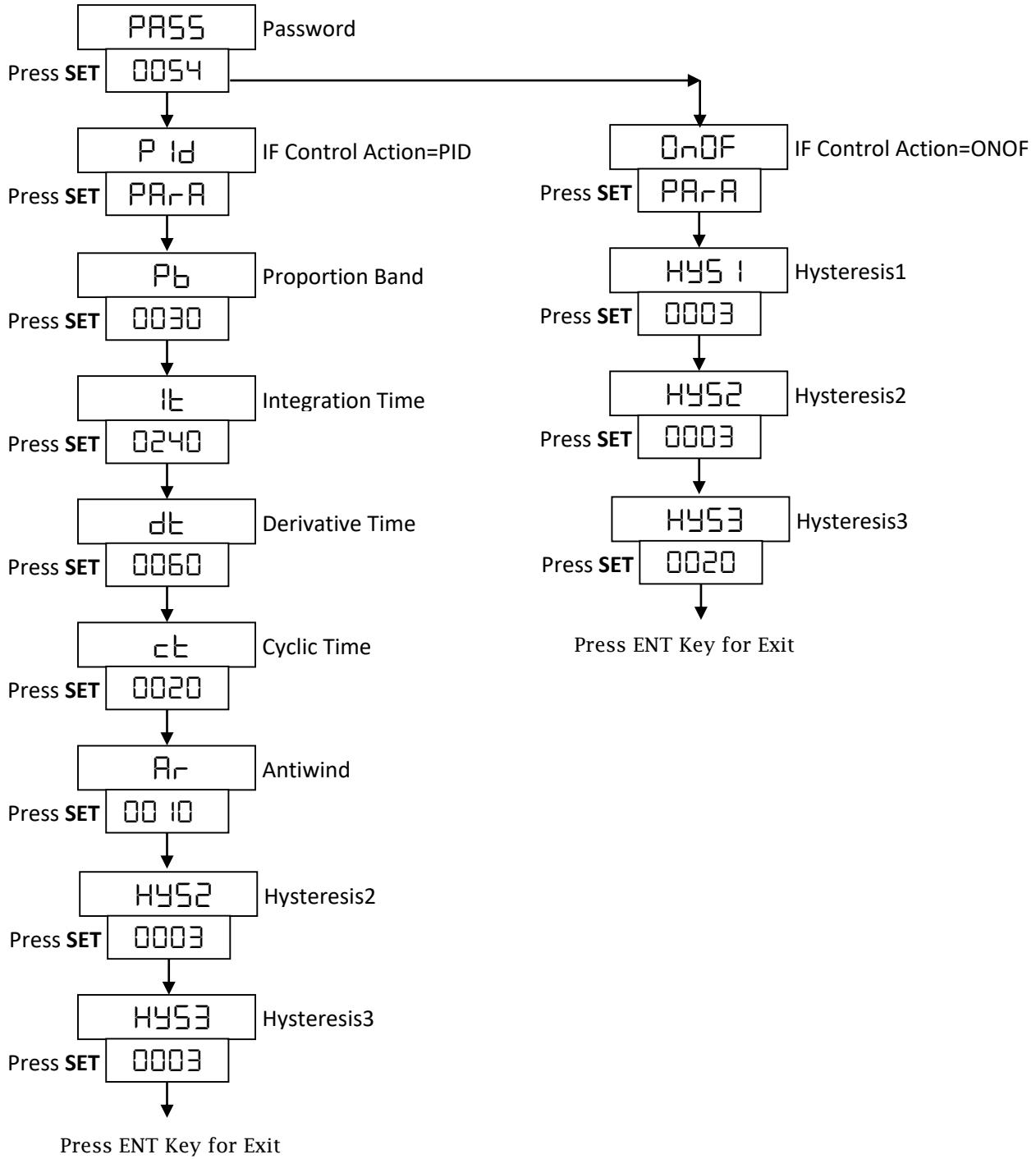
PID Auto-Tuning:

- 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)

Basic Configuration:



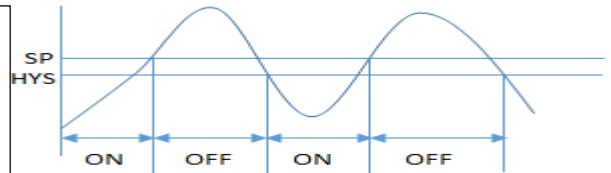
Control Parameter:



Relay1,Relay2&Relay3 Operating Modes:

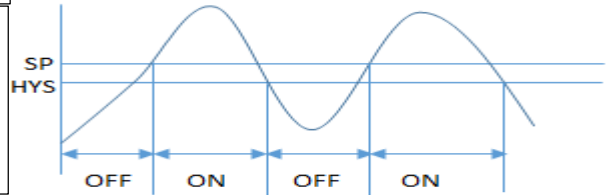
- **Heat Mode:**

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.



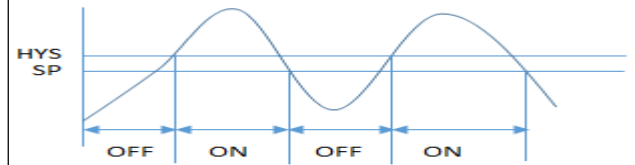
- **Cool Mode:**

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.



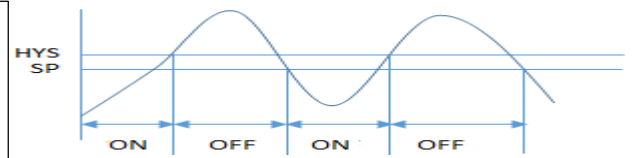
- **High Alarm Mode [H-AL]:**

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.



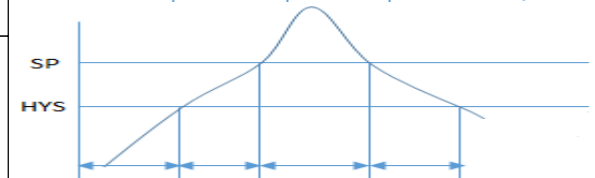
- **Low Alarm Mode [L-AL]:**

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 off between Set point & Hysteresis condition. If Set Point=100 & Hysteresis=3 than Relay off 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.

