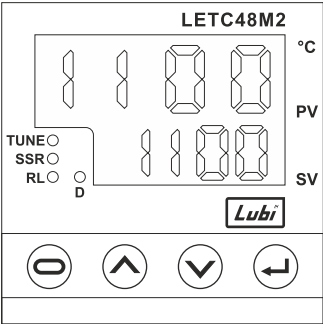


OPERATING MANUAL

TEMPERATURE CONTROLLER



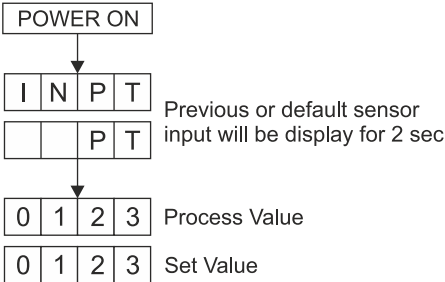
TECHNICAL SPECIFICATION

- 1) Display : Upper : 4 digit 7 seg, 0.4", Red LED display
Lower : 4 digit 7 seg, 0.3", Green LED display
- 2) Input : J, K, PT100, PT.1 (Selectable), CT
- 3) Temperature Range : J: 0 to 600°C / K: 0 to 1200°C /
PT-100: -99 to 400°C /PT.1: -99.0 to 400.0°C
- 4) Control Action : PID / ON-OFF / TP (Selectable)
- 5) Output : 1 Relay, 1 C/O contact, 230V AC, 10A; 1 SSR,12V DC, 30mA DC
- 6) Power Supply : 100 to 250V AC, 50/60 Hz

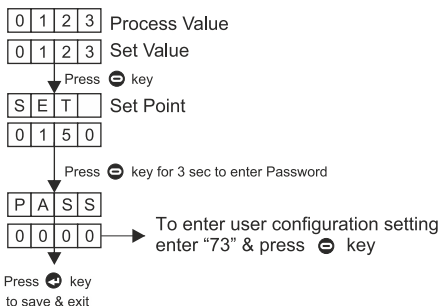
Note :

- 1) Set the value of Set-point first.
- 2) Set user configuration parameters.
- 3) Set the control parameters.
- 4) Press key to go to next parameter.
- 5) Press key or key to enter value or select option.
- 6) Press key to save & exit.
- 7) Press key for 6 sec to start/stop PID auto-tuning.

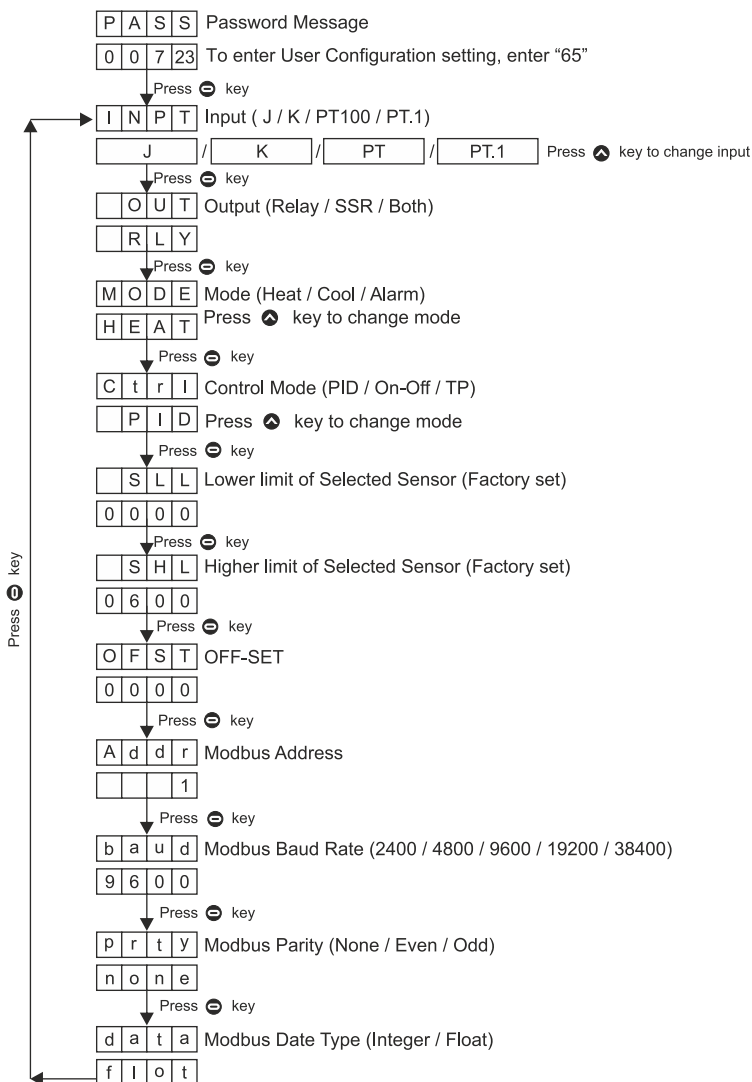
• Every time the instrument is turned ON, following pattern will be display.



SET POINT SETTING



USER CONFIGURATION (If password = 65)



CONTROL PARAMETER

M O D E
H E A T

Mode (Heat / Cool / Alarm)

Press  key to change mode

Press  key

IF COOL SELECTED

H Y S
0 0 0 3

Hysteresis

Press  key

d L t M
0 0 0 5

Delay Time

Press  key

S L L
0 0 0 0

Lower limit of Selected Sensor

Press  key

S H L
0 6 0 0

Higher limit of Selected Sensor

Press  key

O F S T
0 0 0 0

OFF-SET

Press  key

A d d r
 1

Modbus Address

Press  key

b a u d
9 6 0 0

Modbus Baud Rate

(2400 / 4800 / 9600 / 19200 / 38400)

Press  key

p r t y
n o n e

Modbus Parity (None / Even / Odd)

Press  key

d a t a
f l o a t

Modbus Date Type (Integer / Float)

Press  key to Save & Exit

IF ALARM SELECTED

A L r M
H I G H

Select Alarm Type (High / Low / In-B /
Ot-B / Ab-O / Ab-L)

Press  key

c t r L
o n o f

Control Mode (PID / On-Off / TP)

If High, Low,
Ab-L, Selected)

H y s
 3

Hysteresis

If In-B, Ot-B, Ab-O
Selected

A l t M
 5

Alarm Time

Press  key

S L L
0 0 0 0

Lower limit of Selected Sensor

Press  key

S H L
0 6 0 0

Higher limit of Selected Sensor

Press  key

O F S T
0 0 0 0

OFF-SET

Press  key

A d d r
 1

Modbus Address

Press  key

b a u d
9 6 0 0

Modbus Baud Rate

(2400 / 4800 / 9600 / 19200 / 38400)

Press  key

p r t y
n o n e

Modbus Parity (None / Even / Odd)

Press  key

d a t a
f l o a t

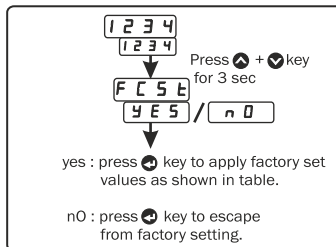
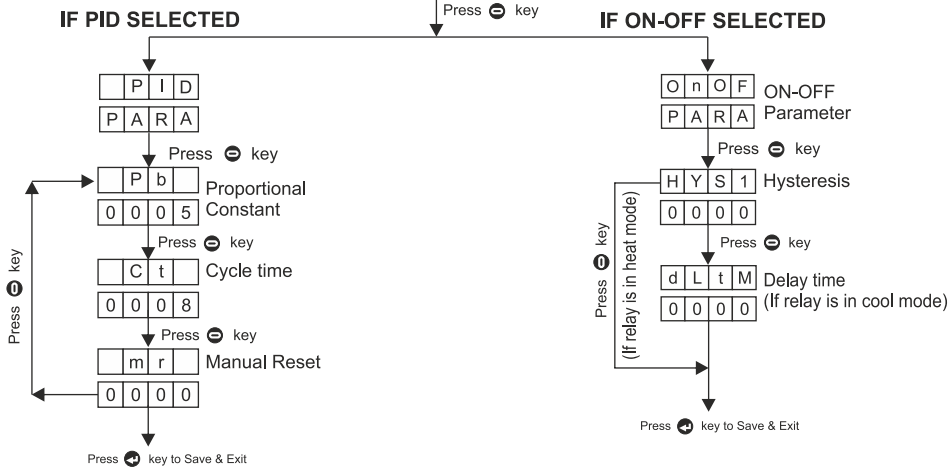
Modbus Date Type (Integer / Float)

Press  key to Save & Exit

CONTROL PARAMETER

(If password = 35)

P A S S Password Message
0 0 3 7 To enter Control Parameters setting, enter "35"

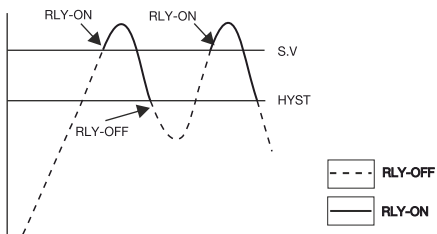


FACTORY SETTING		
SR.	PARAMETER	VALUES
1	PB	05
2	CT	8 Sec
3	MR	0 °C
4	OFFSET	0 °C
5	HYSTERESIS	3 °C
6	DELAY TIME	6 sec

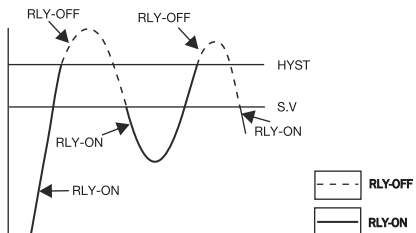
SR.	PARAMETER	RANGE FOR J, K, PT100,	RANGE FOR PT.1
1	PB	1 to 15	1.0 to 15.0
2	CT	4 sec to 30 sec	4 sec to 30 sec
3	MR	-10 to +10°C	-10.0 to +10.0°C
4	DELAY TIME	1 sec to 999 sec	1 sec to 999 sec
5	HYSTERESIS	1°C to 50°C	0.1°C to 50.0°C
6	OFF-SET CORRECTION	-20°C to +20°C	-20.0°C to +20.0°C

CONTROL FUNCTION

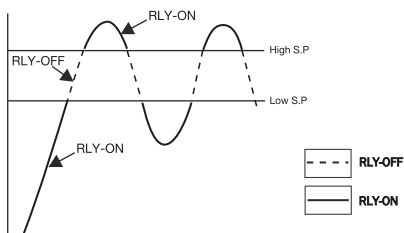
HIGH ALARM:



LOW ALARM:

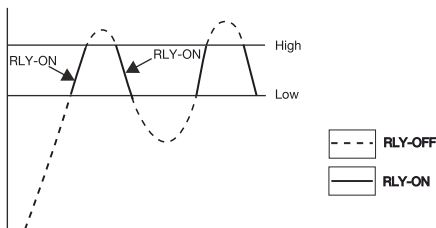


OUTBAND ALARM



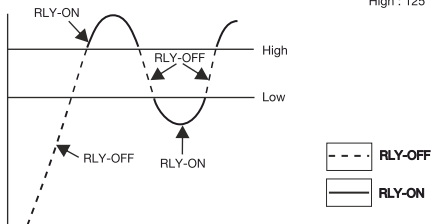
INBAND ALARM

Low : 75
High : 125

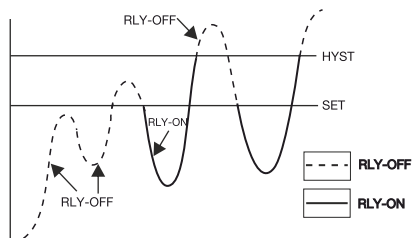


ABSOLUTE OUTBAND ALARM

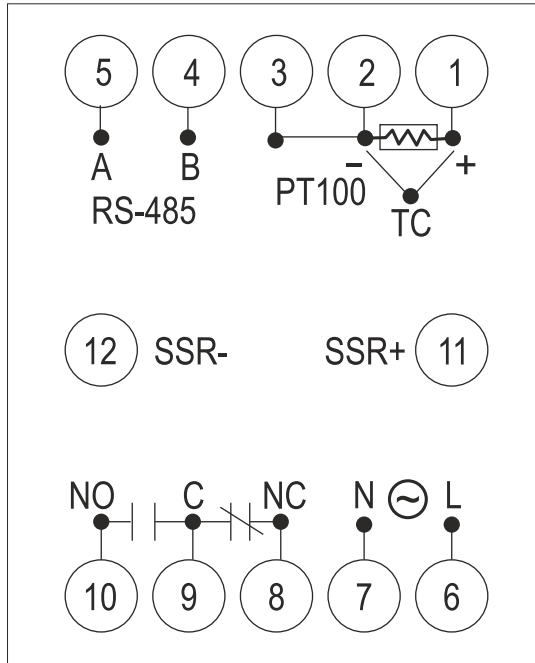
Low : 75
High : 125



ABSOLUTE LOW ALARM



CONNECTION DIAGRAM



Note : For Calibration contact factory.



Lubi Electronics

Sardar Patel Ring Road, Nr. Karai Gam Patia, Nana Chiloda, Dist. : Gandhinagar - 382 330 (Guj.) INDIA.

Tel. : +91-79-6674 5300 Fax : +91-79-6674 5599

E-mail : lubi@lubielelectronics.com · Web : www.lubielelectronics.com