tAPMAN®

UNIVERSAL INDICATOR

OPERATION MANUAL

• Configuration

Before the Indicator can be used it has to be configured properly. This can be done as follows:

- ✓ Remove power to the Indicator.
- ✓ Keep the button pressed and then apply power.
- ✓ When the display shows CnF release the button.
- ✓ On releasing the button the display shows ESC.
- ✓ Press the button briefly the display shows SEn.
- ✓ Now press the button. The display now shows the selected sensor.
- ✓ Press or button to change the sensor.
- ✓ After the desired sensor is displayed, press the button again. The display now shows SEn.
- ✓ Using or buttons navigate through the other configuration parameter list.
- ✓ To change the value of any configuration parameter press button and then using or change to the desired value.
- ✓ After all the changes have been done use or button to comeback to ESC.
- ✓ **To save the changes made, press the button when the display is showing ESC.**

• Configuration Parameters

SEn	SENSOR SELECTION
Displays	Messages
Range	Ptd, PtJ, J, K, E, T, b, n, r, S, A-I, Cur, 0-2, 4-2.
Units	None

Display	Description
Ptd	$Pt100_{DIN}$ (α= 0.00385)
PtJ	$Pt100_{JIS}$ (α= 0.00392)
ni	$Nickel_{120}$
J	J type Thermocouple.
K	K type Thermocouple.
E	E type Thermocouple.
t	T type Thermocouple.
b	B type Thermocouple.
n	N type Thermocouple.
r	R type Thermocouple.
S	S type Thermocouple.
A-I	mV display
Cur	mA display
0-2	0 – 20 mA parameter display.
4-2	4 – 20 mA parameter display.

Note:

When either 0-2 or 4-2 is selected the instrument displays a parameter that is scaled as per the SCr and ECr parameter values.

0-2 : Instrument shows the value of SCr when loop current is 0mA and linearly increases to ECr value when loop current increases to 20mA.

4-2: Instrument shows the value of SCr when loop current is 0mA and linearly increases to ECr value when loop current increases to 20mA. In case when the loop current becomes less than 2mA the instrument flashes oPEn.

rSL	RESOLUTION
Displays	Messages
Range	hi, Lo,
Units	None

Display	Description
hi	High Resolution (0.1)
Lo	Low Resolution (1)

unit	TEMPERATURE UNITS
Displays	Messages
Range	CEn, FAr, rEu, KEL,
Units	None

Display	Description
CEn	Centigrade scale
FAr	Fahrenheit scale
rEu	Reuhmer scale
KEL	Kelvin scale

SCr	START READING	
Displays	Messages	
Range	-199 to 999	3 digit model
	-999 to 9999	4 digit model
Units	None	

ECr	END READING	
Displays	Messages	
Range	-199 to 999	3 digit model
	-999 to 9999	4 digit model
Units	None	

• Wiring Details

Sensor selected	Wiring diagram
RTD: $Pt100_{DIN}$ (α= 0.00385) $Pt100_{JIS}$ (α= 0.00392) $Nickel_{120}$	Diagram 1.
Thermocouple: J, K, E, T, B, N, R, S	Diagram 2.
mV	Diagram 3.
mA, 0 – 20 mA , 4 – 20 mA	Diagram 4.

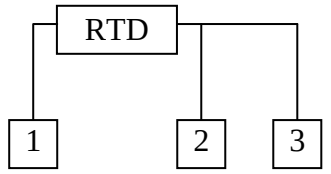

Diagram 1

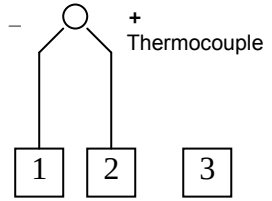

Diagram 2

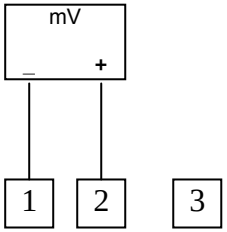

Diagram 3

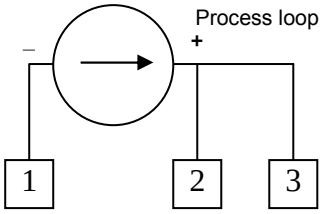

Diagram 4