



PPI IndeX48 Temperature Indicator User Manual

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Inde X
Temperature Indicator with Alarms



User Manual

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PANEL MOUNTING & ELECTRICAL CONNECTIONS

PANEL CUTOUTS

Figure 1.1

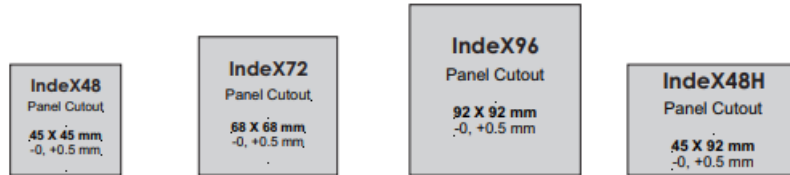


Figure 1.2(a)

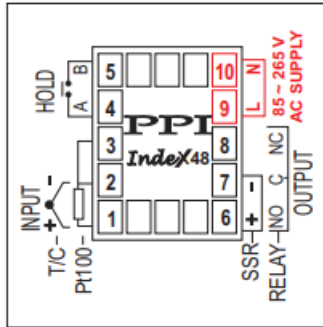


Figure 1.2(b)

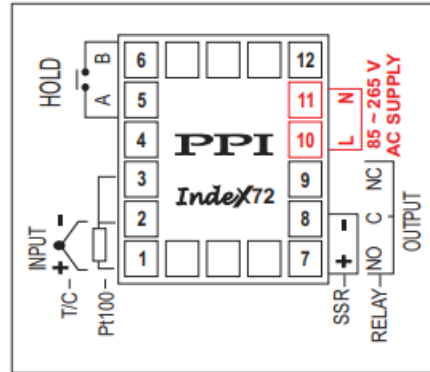


Figure 1.2 (c)

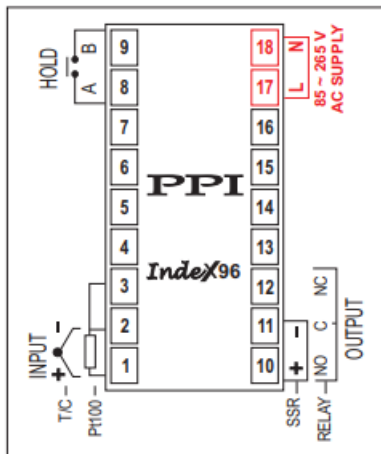
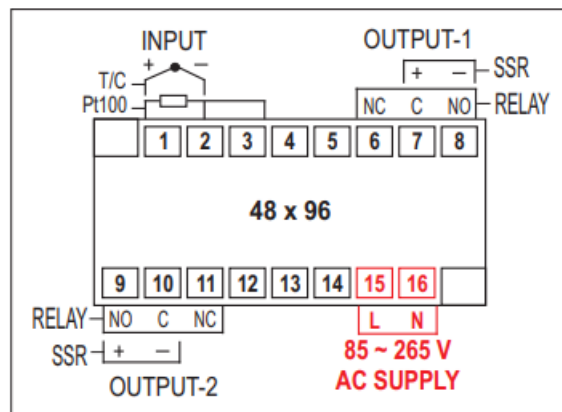


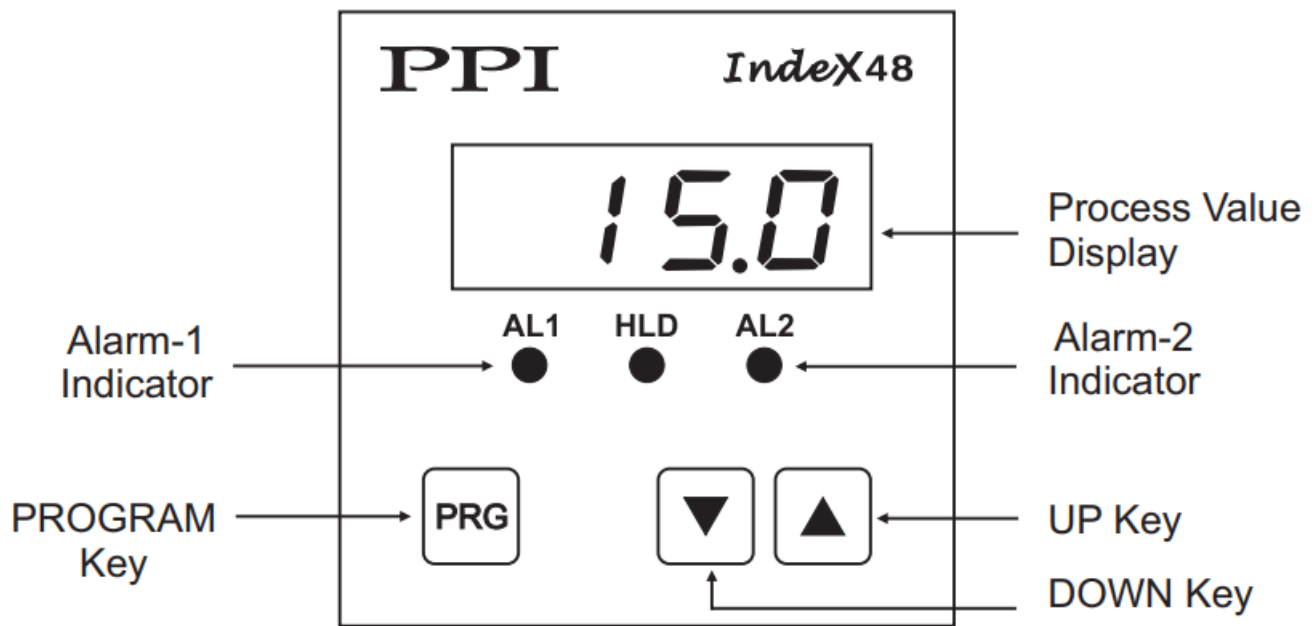
Figure 1.2(d)



FRONT PANEL AND OPERATION

INDEX48 / INDEX72 / INDEX96

Figure 2.1(a)



INDEX48H

Figure 2.1(b)

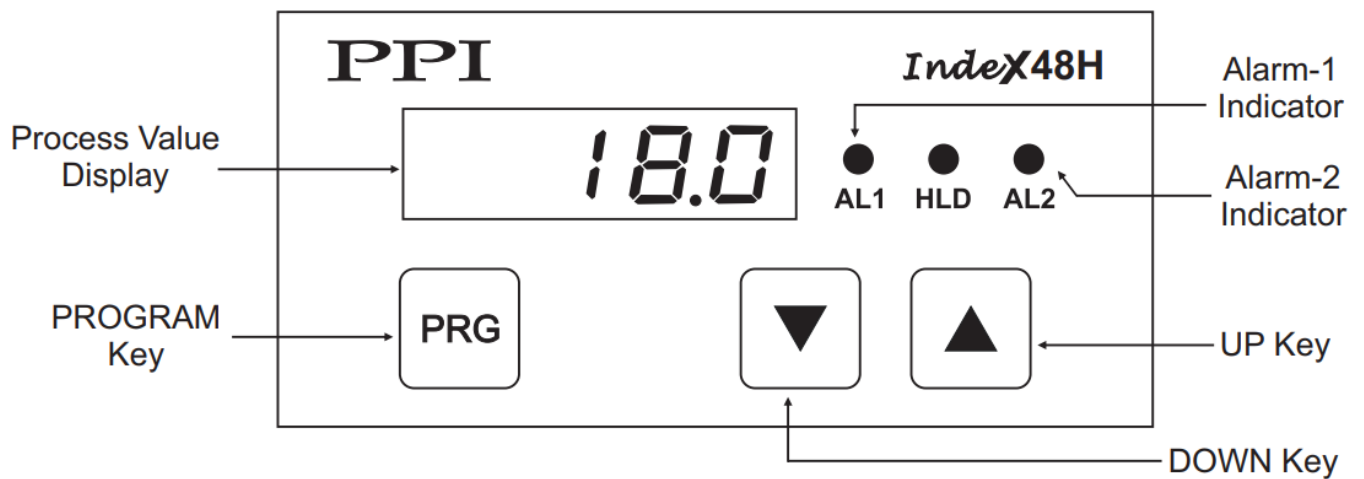


Table 2.1
KEY DEFINITIONS

Symbol	Key	Function
	PROGRAM MODE	Keep pressed for approximately 5 seconds to enter / exit Set-up mode.
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; holding the key pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; holding the key pressed speeds up the change.

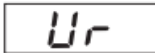
MAIN MODE DISPLAY

Upon switching on the power to the Indicator, all displays and indicators are lit on for approximately 3 seconds.

This is followed by the indication of the Indicator model name  for approximately 1 second. The Indicator now enters MAIN Mode wherein the display shows the PV proportional to the Input DC signal within user set Range Low and Range High Limits.

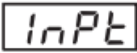
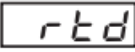
PV ERROR INDICATION

In case of PV Error the following messages are flashed.

Message	PV Error Type
	Over-range (PV above Max. Range)
	Under-range (PV below Min. Range)
	Open (Sensor open / broken)

PARAMETER SETTINGS

The Indicator offers various parameters for setting-up the configuration and operation modes. Each parameter

has a unique name  and a settable value. For example, the parameter 'Input Type' is identified by its name and has the settable values 'RTD' () and 'RTD.1' ().

Further, the parameters are organized under different groups. Each group of parameters is called PAGE. Each page is assigned a unique number for its identification and access. The various pages along with their parameters are described later.

Follow the steps below for setting / changing any parameter value.

1. Keep PRG key pressed (approximately 5 seconds) until display shows PAGE (**PAGE**). Release the key.
2. Press PRG key again. Display shows page number 0.
3. Press PRG key if page 0 is the desired page number (operator page) or use UP / DOWN keys to set the desired page number and then press PRG key. The display now shows the name for the first parameter in the page.
4. Use UP / DOWN keys to select the desired parameter name.
5. Press PRG key. The display now shows the value for the selected parameter.
6. Use UP / DOWN keys to change the parameter value.
7. Press PRG key to save the new value. The display shows the name for the next parameter in the list.
8. Repeat steps 4 to 7 for any other parameter settings, if required.
9. For returning to Main Mode, keep PRG key pressed (approximately 3 seconds) until the display starts showing PV.

The following figures step-wise show an example of changing the value for the parameter 'Resolution' from '1' to '0.1'. The parameter 'Resolution' is available on PAGE-12 and is second in the list. Notice that from MAIN Mode the appropriate page number is selected first and then the desired parameter name is selected for changing the value. Finally, PRG key is used to return back to MAIN Mode.

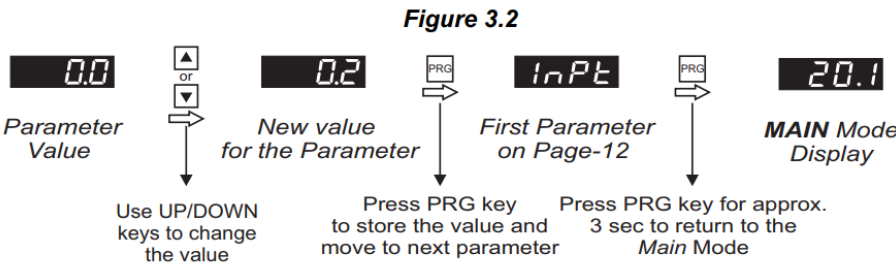
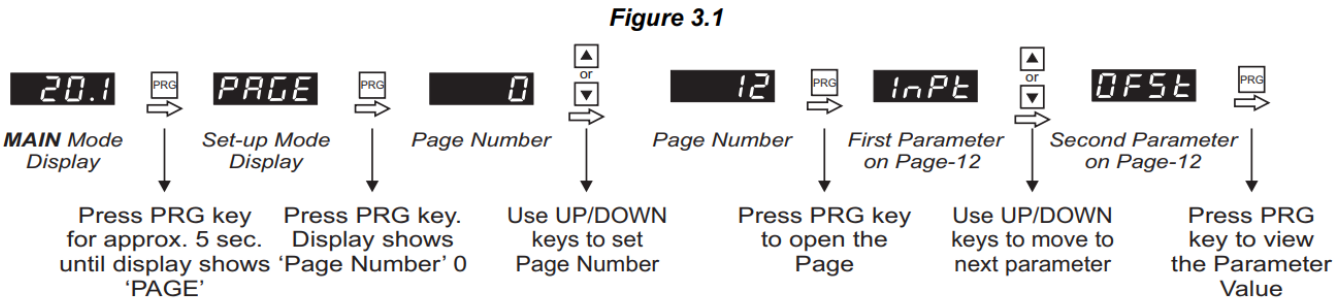


Table 3.1
PAGE – 0 : OPERATOR PARAMETERS

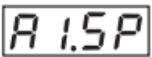
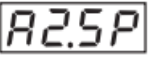
Parameter Description	Settings
 ALARM-1 SETPOINT Available only if selected 'Alarm-1 type' is either 'Process High' or 'Process Low'. This parameter value sets the Upper (Process High) or Lower (Process Low) Alarm Limit.	Minimum to Maximum Range specified for the selected Input type
 ALARM-2 SETPOINT Available only if selected 'Alarm-2 type' is either 'Process High' or 'Process Low'. This parameter value sets the Upper (Process High) or Lower (Process Low) Alarm Limit.	Minimum to Maximum Range specified for the selected Input type

Table 3.2

PAGE – 1 : PV MIN / MAX PARAMETERS

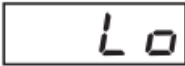
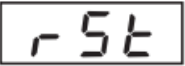
Parameter Description	Settings
 MAXIMUM PROCESS VALUE This gives the maximum PV recorded since Power-up or last reset.	View Only
 MINIMUM PROCESS VALUE This gives the minimum PV recorded since Power-up or last reset.	View Only
 RESET PV MONITOR This command resets Maximum value and Minimum value to the instantaneous Process Value.	 No  Yes

Table 3.3

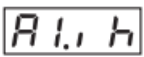
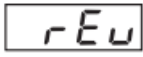
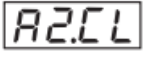
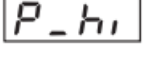
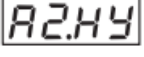
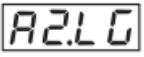
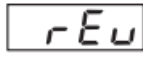
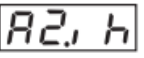
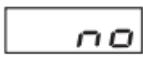
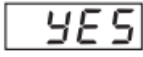
PAGE – 12 : INPUT CONFIGURATION PARAMETERS

Parameter Description	Settings
INPt INPUT TYPE The Indicator is factory calibrated for either J, K, R, S Thermocouple or RTD Pt100 (3-wire) sensor. Select the appropriate input type as per the type of Thermocouple / Sensor connected . The table below shows the temperature ranges for each input type.	Controller Version : J / K / R / S tc-J Type J tc-K Type K tc-R Type R tc-S Type S Controller Version : RTD Pt100 rtd RTD (1°C) rtd.1 RTD (0.1°C)
OFSt OFFSET FOR PV Zero offset for measured PV. Displayed PV = Actual PV + Offset	-1999 to 9999 for Thermocouple & RTD (1°C) -199.9 to 999.9 for RTD (0.1°C)

Table 3.4

PAGE – 11 : ALARM PARAMETERS

Parameter Description	Settings
AlCL ALARM-1 TYPE Type for Alarm-1.	nonE None P_Lo Process Low P_hI Process High
AlHY ALARM-1 HYSTERESIS Differential (dead) band between the ON and OFF alarm states. Keep it large enough to avoid frequent switching.	1 to 999 or 0.1 to 99.9
AlLG ALARM-1 LOGIC Normal : The alarm-1 output remains ON under alarm conditions; OFF otherwise. Reverse : The alarm-1 output remains OFF under alarm conditions; ON otherwise.	norñ Normal rEu Reverse

 ALARM-1 INHIBIT Yes : The alarm-1 is suppressed during start-up alarm conditions. No : The alarm-1 is not suppressed during start-up alarm conditions.	 Normal  Reverse
 ALARM-2 TYPE Type for Alarm-2.	 None  Process Low  Process High
 ALARM-2 HYSTERESIS Same as Alarm-1 Hysteresis.	1 to 999 or 0.1 to 99.9
 Alarm-2 Logic Same as Alarm-1 Logic.	 Normal  Reverse
 ALARM-2 INHIBIT Same as Alarm-1 Inhibit.	 No  Yes



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Documents / Resources



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IndeX48 Temperature Indicator, IndeX48, Temperature Indicator, Indicator