



PPI ProceX48 Process Indicator with Alarms User Manual

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Proce X
Process Indicator with Alarms



User Manual

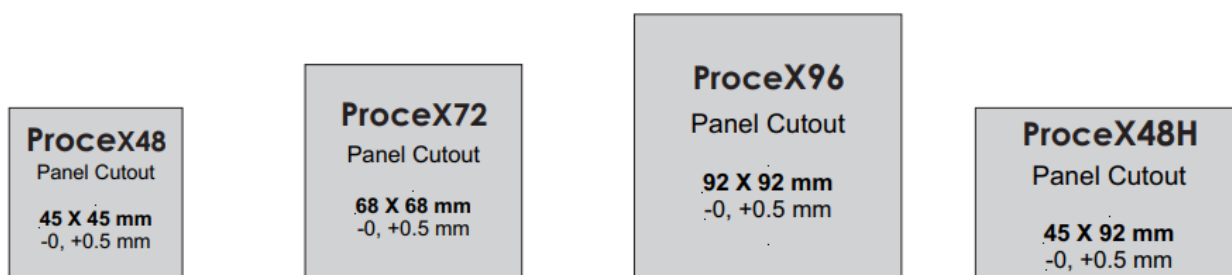
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PANEL MOUNTING & ELECTRICAL CONNECTIONS

PANEL CUTOUTS

Figure 1.1



ELECTRICAL CONNECTIONS

Figure 1.2(a)

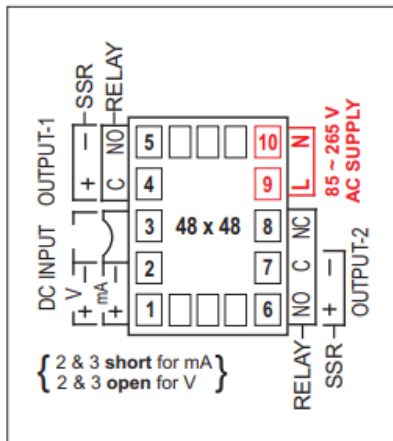


Figure 1.2(b)

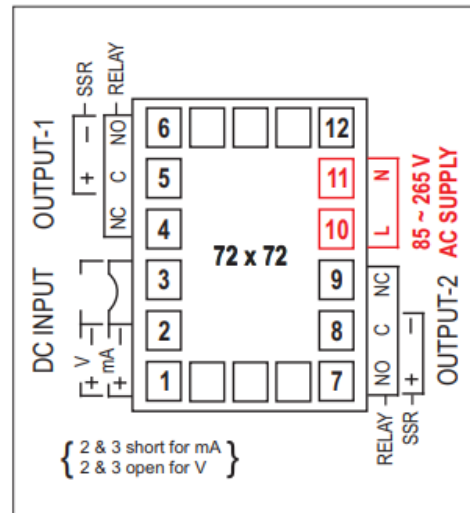


Figure 1.2(c)

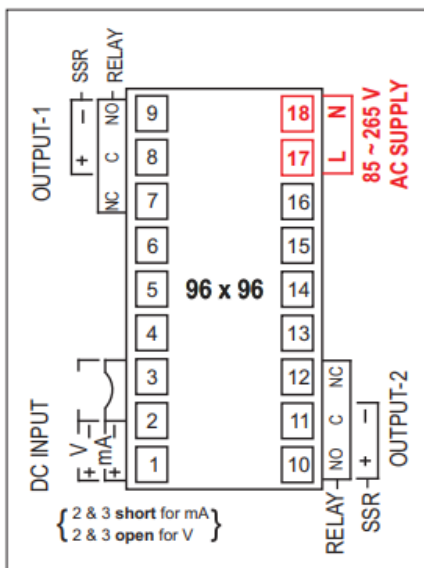
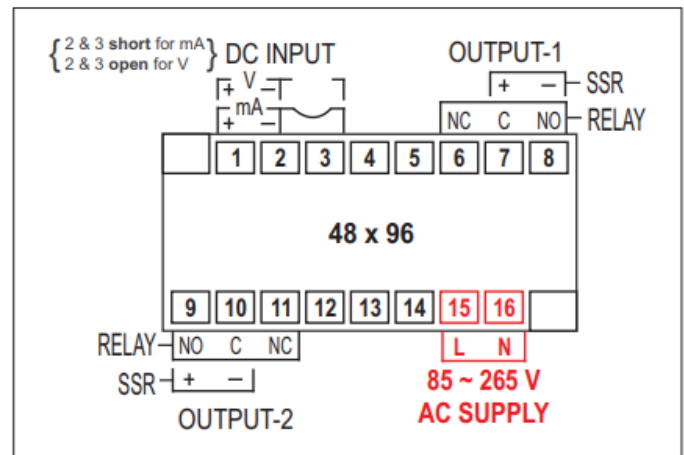


Figure 1.2(d)



FRONT PANEL AND OPERATION

PROCEX48 / PROCEX72 / PROCEX96

Figure 2.1(a)

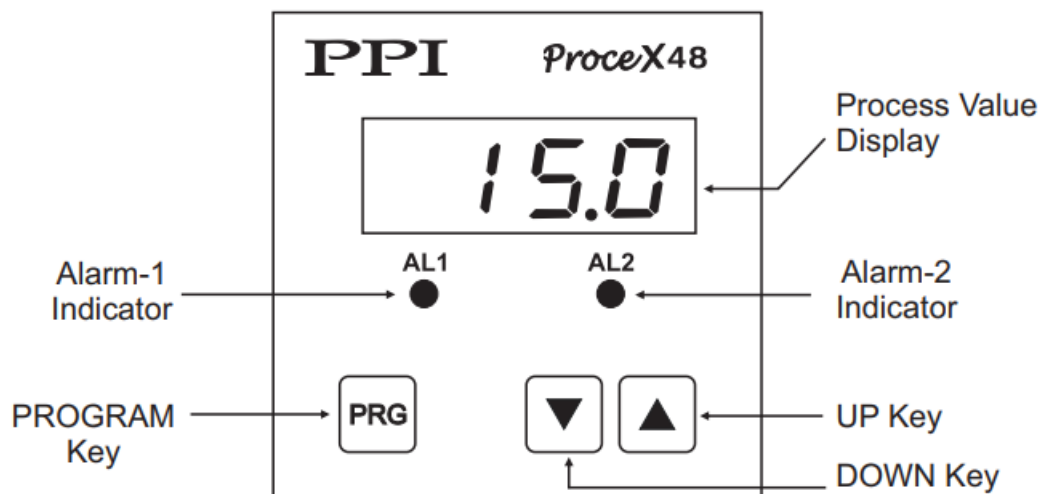


Figure 2.1(b)

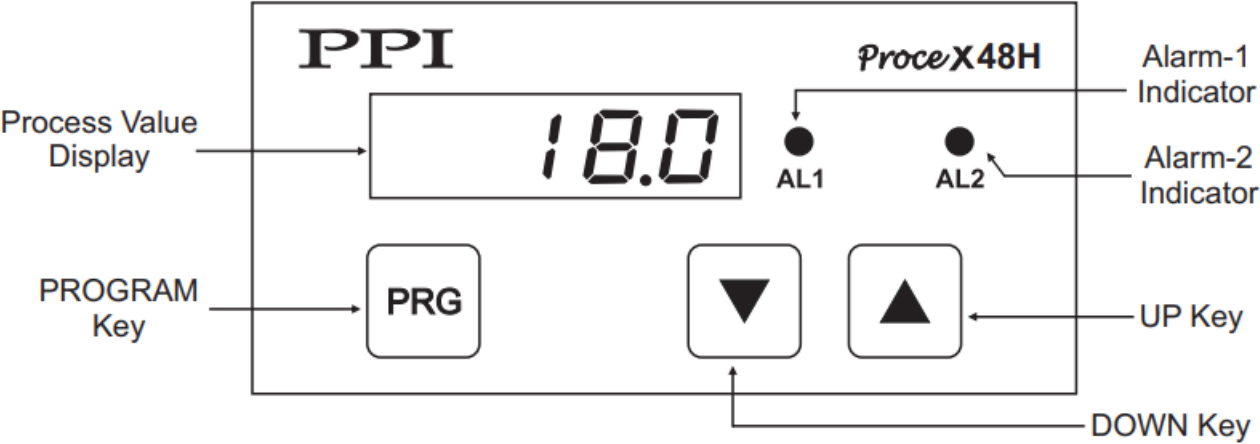


Table 2.1
KEY DEFINITIONS

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.

Table 2.2

Message	PV Error Type
	Over-range (PV above Max. Range)
	Under-range (PV below Min. Range)

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 '0-20mA / 4-20mA / 0-5V / 0-10V'.

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.

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

1. Keep PRG key pressed (approximately 5 seconds) until display shows 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.

Figure 3.1

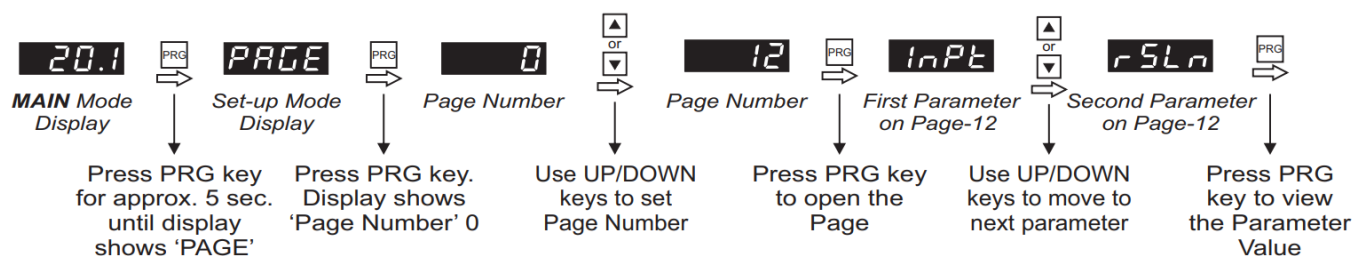


Figure 3.2

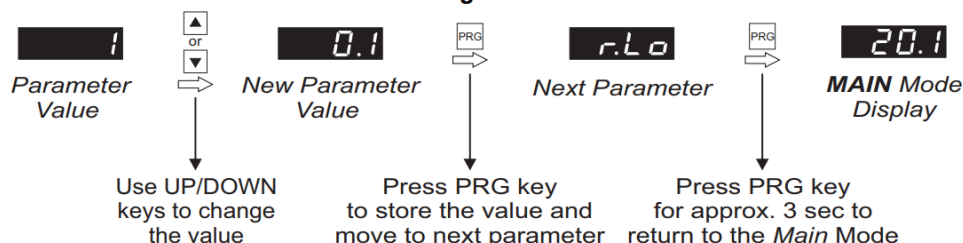


Table 3.1
PAGE – 0 : OPERATOR PARAMETERS

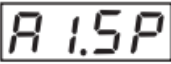
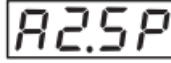
Parameter Description	Settings
 ALARM-1 SETPOINT Available only if selected 'Alarm-1 type' is either 'Process High' or 'Process Low'. This parameter value sets the Upper (Process High) or Lower (Process Low) Alarm Limit.	-1999 to 9999 (with selected Resolution)
 ALARM-2 SETPOINT Available only if selected 'Alarm-2 type' is either 'Process High' or 'Process Low'. This parameter value sets the Upper (Process High) or Lower (Process Low) Alarm Limit.	-1999 to 9999 (with selected Resolution)

Table 3.2
PAGE – 1 : PV MIN / MAX PARAMETERS

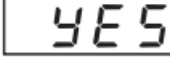
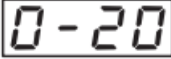
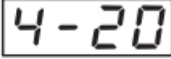
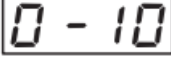
Parameter Description	Settings
 MAXIMUM PROCESS VALUE This gives the maximum PV recorded since Power-up or last reset	View Only
 MINIMUM PROCESS VALUE This gives the minimum PV recorded since Power-up or last reset.	View Only
 RESET PV MONITOR This command resets Maximum value and Minimum value to the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

Table 3.3

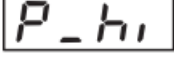
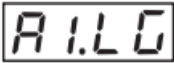
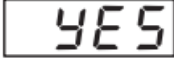
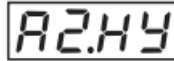
PAGE – 12 : INPUT CONFIGURATION PARAMETERS

Parameter Description	Settings
 INPUT TYPE The Indicator is factory calibrated for DC Voltage (0-5V / 0-10V) and DC Current (0-20mA / 4-20mA). Select the appropriate input type as per the type of Input Signal. Note : For DC Voltage Input, keep Terminals 2 & 3 open. For DC Current Input, keep terminals 2 & 3 shorted.	Controller Version :  0 - 20 mA  4 - 20 mA  0 - 5 V  0 - 10 V
 RESOLUTION Decimal Point for the displayed value.	 1  0.1  0.01  0.001

Parameter Description	Settings
  DC RANGE LOW AND DC RANGE HIGH Set Range High as the value corresponding to Maximum input signal level and Range Low as the value corresponding to Minimum input signal level.	-1999 to 9999 (with selected Resolution)
 OFFSET FOR PV Zero offset for measured PV. Displayed PV = Actual PV + Offset	-1999 to 9999 (with selected Resolution)

Table 3.4

PAGE – 11 : ALARM PARAMETERS

Parameter Description	Settings
 ALARM-1 TYPE Type for Alarm-1.	 None  Process Low  Process High
 ALARM-1 HYSTERESIS Differential (dead) band between the ON and OFF alarm states. Keep it large enough to avoid frequent switching.	1 to 999 (with selected Resolution)
 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.	 Normal  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.	 No  Yes
 ALARM-2 TYPE Type for Alarm-2.	 None  Process Low  Process High
 ALARM-2 HYSTERESIS Same as Alarm-1 Hysteresis.	1 to 999 (with selected Resolution)
 ALARM-2 LOGIC Same as Alarm-1 Logic.	 Normal  Reverse
 ALARM-2 INHIBIT Same as Alarm-1 Inhibit.	 No  Yes



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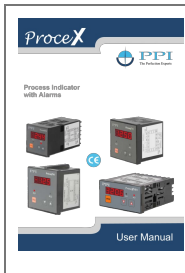


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Documents / Resources



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