



PPI Scanex Plus 8-16 Channel Universal Process Scanner Instruction Manual

[Home](#) » [PPI](#) » PPI Scanex Plus 8-16 Channel Universal Process Scanner Instruction Manual 

Contents

- [1 PPI Scanex Plus 8-16 Channel Universal Process Scanner](#)
- [2 FRONT PANEL LAYOUT](#)
- [3 ELECTRICAL CONNECTIONS](#)
- [4 Documents / Resources](#)
 - [4.1 References](#)
- [5 Related Posts](#)



PPI Scanex Plus 8-16 Channel Universal Process Scanner



101, Diamond Industrial Estate, Navghar,
Vasai Road (E), Dist. Palghar – 401 210.
Sales : 8208199048 / 8208141446
Support : 07498799226 / 08767395333
E: sales@ppiindia.net, support@ppiindia.net

This brief manual is primarily meant for quick reference to wiring connections and parameter searching. For more details on operation and application; please log on to www.ppiindia.net

CONFIGURATION PARAMETERS : PAGE 12	
Parameters	Settings (Default Value)
Actual Numbers of Channels to Scan 5n.CH	1 to Max. Available (Default : 8 or 16)
Sensor-break PV Status 5.br.P	UP Up Scale dn Down Scale (Default : Up Scale)
Common Input Configurations C.In.C	no No YES Yes (Default : Yes)
Select Channel for Configuration CHAn	1 to Actual no. of channels to scan (Default : 1)
Input Type inPt	Refer Table 2 (Default : Type K)
Resolution rSLn	Refer Table 2 (Default : 0.1)
PV Units Unit	Refer Table 1 (Default : °C)

Signal Low SGLo	<table><tr><th>Input Type</th><th>Settings</th><th>Default</th></tr><tr><td>0 to 20 mA</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>4 to 20 mA</td><td>4.00 to Signal High</td><td>4.00</td></tr><tr><td>0 to 80 mV</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>0 to 1.25 V</td><td>0.000 to Signal High</td><td>0.000</td></tr><tr><td>0 to 5 V</td><td>0.000 to Signal High</td><td>0.000</td></tr><tr><td>0 to 10 V</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>1 to 5 V</td><td>1.000 to Signal High</td><td>1.000</td></tr></table>	Input Type	Settings	Default	0 to 20 mA	0.00 to Signal High	0.00	4 to 20 mA	4.00 to Signal High	4.00	0 to 80 mV	0.00 to Signal High	0.00	0 to 1.25 V	0.000 to Signal High	0.000	0 to 5 V	0.000 to Signal High	0.000	0 to 10 V	0.00 to Signal High	0.00	1 to 5 V	1.000 to Signal High	1.000
Input Type	Settings	Default																							
0 to 20 mA	0.00 to Signal High	0.00																							
4 to 20 mA	4.00 to Signal High	4.00																							
0 to 80 mV	0.00 to Signal High	0.00																							
0 to 1.25 V	0.000 to Signal High	0.000																							
0 to 5 V	0.000 to Signal High	0.000																							
0 to 10 V	0.00 to Signal High	0.00																							
1 to 5 V	1.000 to Signal High	1.000																							
Signal High SGHi	<table><tr><th>Input Type</th><th>Settings</th><th>Default</th></tr><tr><td>0 to 20 mA</td><td>Signal Low to 20.00</td><td>20.00</td></tr><tr><td>4 to 20 mA</td><td>Signal Low to 20.00</td><td>20.00</td></tr><tr><td>0 to 80 mV</td><td>Signal Low to 80.00</td><td>80.00</td></tr><tr><td>0 to 1.25 V</td><td>Signal Low to 1.250</td><td>1.250</td></tr><tr><td>0 to 5 V</td><td>Signal Low to 5.000</td><td>5.000</td></tr><tr><td>0 to 10 V</td><td>Signal Low to 10.00</td><td>10.00</td></tr><tr><td>1 to 5 V</td><td>Signal Low to 5.000</td><td>5.000</td></tr></table>	Input Type	Settings	Default	0 to 20 mA	Signal Low to 20.00	20.00	4 to 20 mA	Signal Low to 20.00	20.00	0 to 80 mV	Signal Low to 80.00	80.00	0 to 1.25 V	Signal Low to 1.250	1.250	0 to 5 V	Signal Low to 5.000	5.000	0 to 10 V	Signal Low to 10.00	10.00	1 to 5 V	Signal Low to 5.000	5.000
Input Type	Settings	Default																							
0 to 20 mA	Signal Low to 20.00	20.00																							
4 to 20 mA	Signal Low to 20.00	20.00																							
0 to 80 mV	Signal Low to 80.00	80.00																							
0 to 1.25 V	Signal Low to 1.250	1.250																							
0 to 5 V	Signal Low to 5.000	5.000																							
0 to 10 V	Signal Low to 10.00	10.00																							
1 to 5 V	Signal Low to 5.000	5.000																							
DC Range Low rLo	-1999.9 to 3000.0 (Default : 0.0)																								
DC Range High rHi	-1999.9 to 3000.0 (Default : 100.0)																								
Bottom Clipping Enable bCLE	d5bL Disable EnbL Enable (Default : Disable)																								
Bottom Clipping bCLP	-19999 to Top Clipping (Default : 0)																								

Parameters	Settings (Default Value)
Top Clipping Enable TCE	d5bL Disable EnbL Enable (Default : Disable)
Top Clipping TCLP	Bottom Clipping to 30000 (Default : 1000)
Offset OFSt	-1999.9 to 3000.0 (Default : 0.0)

ALARM CONFIGURATION PARAMETERS : PAGE 11

No. of Alarms/Channel ALCH	1 to 4 (Default : 4)
Select Relay Number rLY	For COMMON Relay O/P 1 to No. of Alarms/channel (Max. 4) For INDIVIDUAL Relay O/P 1 to No. of Channels (Max. 16) (Default : NA)
Relay Logic rLLG	nor$\bar{n}$ Normal rEu Reverse (Default : Normal)
Relay Latch rLLt	no No YES Yes (Default : No)

ALARM SETTING PARAMETERS : PAGE 10

Parameters	Settings (Default Value)
Channel Number CHAN	1 to Max. Channels (Default : NA)
Alarm Number ALrn	1 to User Selected Alarm (Default : NA)
Alarm Type TYPE	none None P_Lo Process Low P_Hi Process High (Default : None)
Alarm Setpoint SP	Min. to Max. of selected input type range (Default : 0)
Alarm Hysteresis HYST	0.1 to 3000.0 (Default : 2.0)
Alarm Inhibit INHIBIT	no No YES Yes (Default : No)

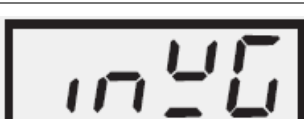
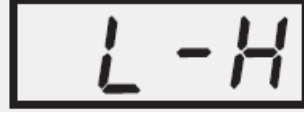
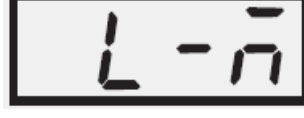
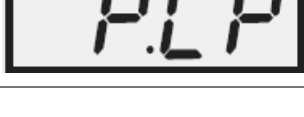
OPERATOR PARAMETERS : PAGE 0

Parameters	Settings (Default Value)
Scan Rate rate	1 Sec. to 99 Sec. (Default : 3 Sec.)
Reset Command rst	no No yes Yes (Default : No)
Channel Number Chan	1 to Actual no. of channels to scan (Default : 1)
Maximum PV Hi	View Only (Default : NA)
Minimum PV Lo	View Only (Default : NA)

SUPERVISORY PARAMETERS : PAGE 13	
Parameters	Settings (Default Value)
Baud Rate 	 2400  4800  9600  19200  38400  57600 (Default : 9600)
Parity 	 None  Even  Odd (Default : Even)
Serial ID 	1 to 247 (Default : 1)
Serial Delay 	0 to 90 mS In Steps of 10 mS (Default : 0 mS)
Serial Write Permission 	 No  Yes (Default : No)

TABLE- 1

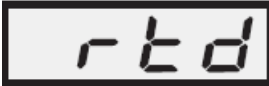
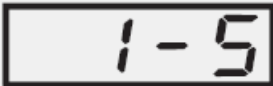
Unit Readout	Units
	°C
	°F

	Kelvin
	Engineering Units
	Percentage
	Pascals
	Mpascals
	Kpascals
	Bar
	Milli bar
	PSI
	kg/sq cm
	mm water gauge
	Inches water gauge
	mm mercury

	Torr
	Liters per hour Liters per minute % Relative Humidity % O2 % CO2 % Carbon Potential volts Amps
	Milli amps
	Milli Volts
	Ohms
	Parts per million
	Revolutions per minute
	Milli seconds
	Seconds
	Minutes
	Hours
	PH

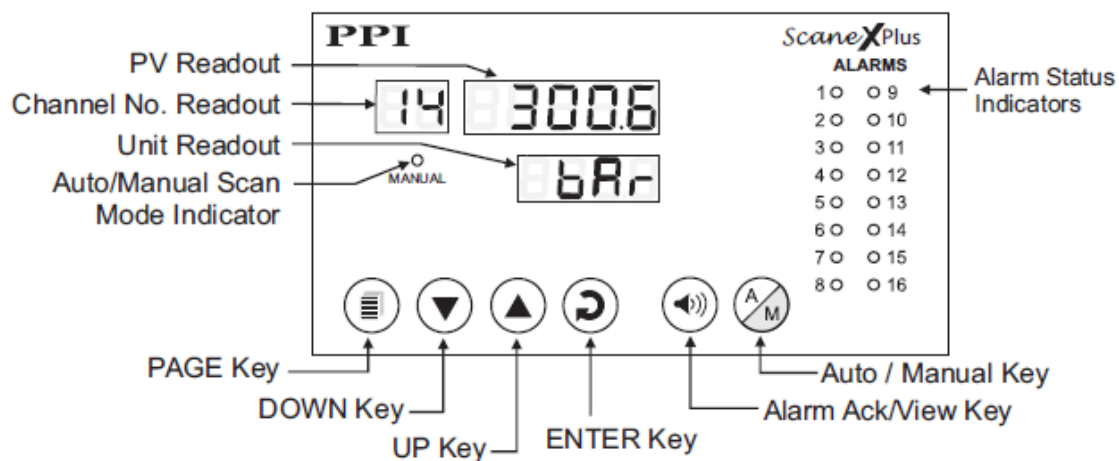
	%PH
	Miles per hour
	Milli grams
	Grams
	Kilo grams

TABLE- 2		
Option	Range (Min. to Max.)	Resolution
 J Type T/C	0.0 to +960.0°C / +32.0 to +1760.0°F	1 °C/°F or 0.1 °C/°F
 K Type T/C	-200.0 to +1376.0°C / -328.0 to +2508.0°F	
 T Type T/C	-200.0 to +387.0°C / -328.0 to +728.0°F	
 R Type T/C	0.0 to +1771.0°C / +32.0 to +3219.0°F	
 S Type T/C	0.0 to +1768.0°C / +32.0 to +3214.0°F	
 B Type T/C	0.0 to +1826.0°C / +32.0 to +3218.0°F	
 N Type T/C	0.0 to +1314.0°C / +32.0 to +2397.0°F	

	Reserved for customer specific Thermocouple type not listed above. The type shall be specified in accordance with the ordered (optional on request) Thermocouple type.	
 3-wire, RTD Pt100	-199 to +600°C / -328 to +1112°F or -199.9 to +600.0°C / -328.0 to +1112.0°F	1 °C/°F or 0.1 °C/°F
 0 to 20mA DC current		
 4 to 20mA DC current		
 0 to 80mV DC voltage		
 Reserved		
 0 to 1.25V DC voltage		
 0 to 5.0V DC voltage		
 0 to 10.0V DC voltage		
 1 to 5.0V DC voltage		

FRONT PANEL LAYOUT

ELECTRICAL CONNECTIONS



Keys Operation

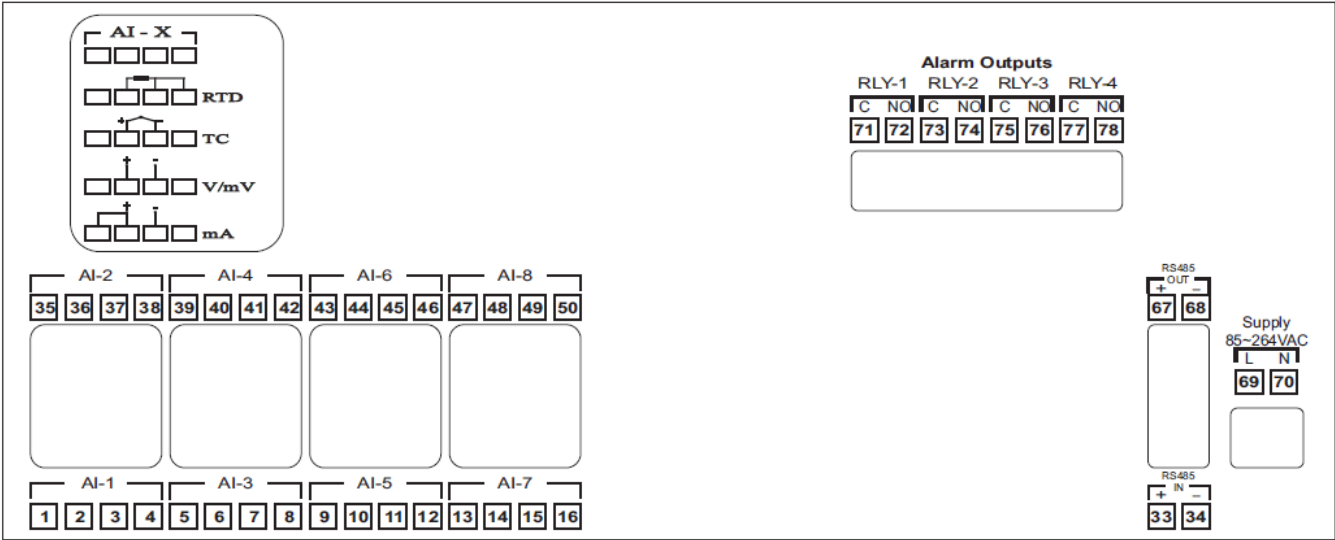
Symbol	Key	Function
	PAGE	Press to enter / exit Set-up Mode
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; holding the key pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; holding the key pressed speeds up the change.
	ENTER	Press to store the set parameter value and to scroll to the next parameter.
	ALARM ACK/VIEW	Press to Acknowledge any pending Alarm(s) and to View details of the channels under Alarm.
	AUTO / MANUAL	Press to toggle between Auto and Manual Scan Mode. In Manual Scan Mode, Use UP / DOWN keys to the desired channel.

PV Error Indications

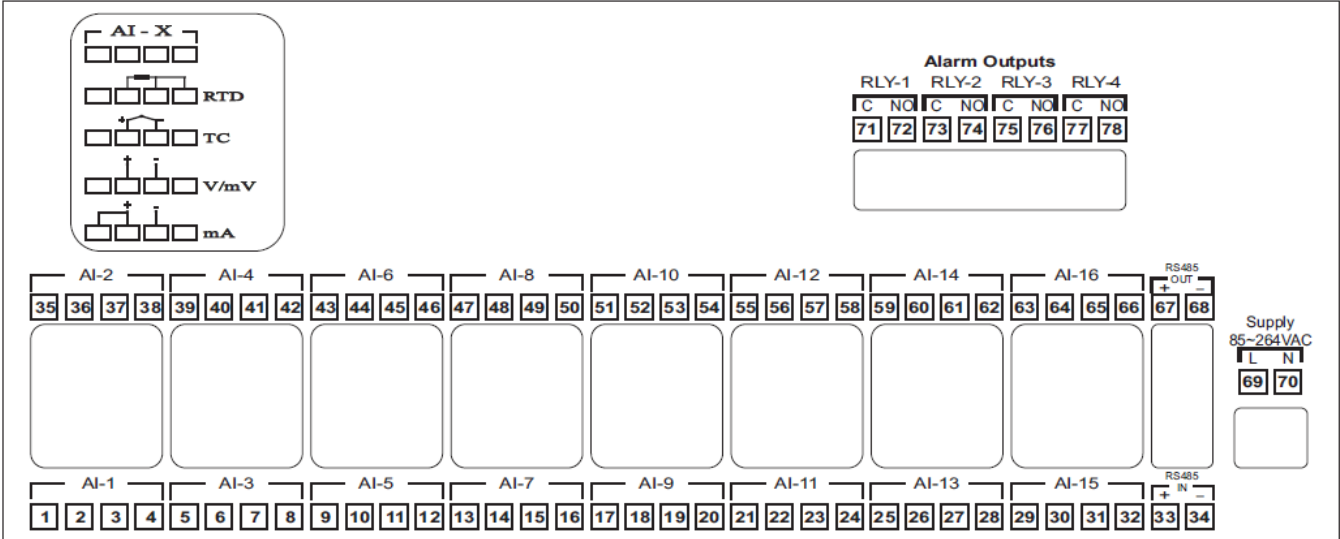
Message	PV Error Type
	Over-range (PV above Max. Range)
	Under-range (PV above Min. Range)
	Open (Sensor open / broken)

ELECTRICAL CONNECTIONS

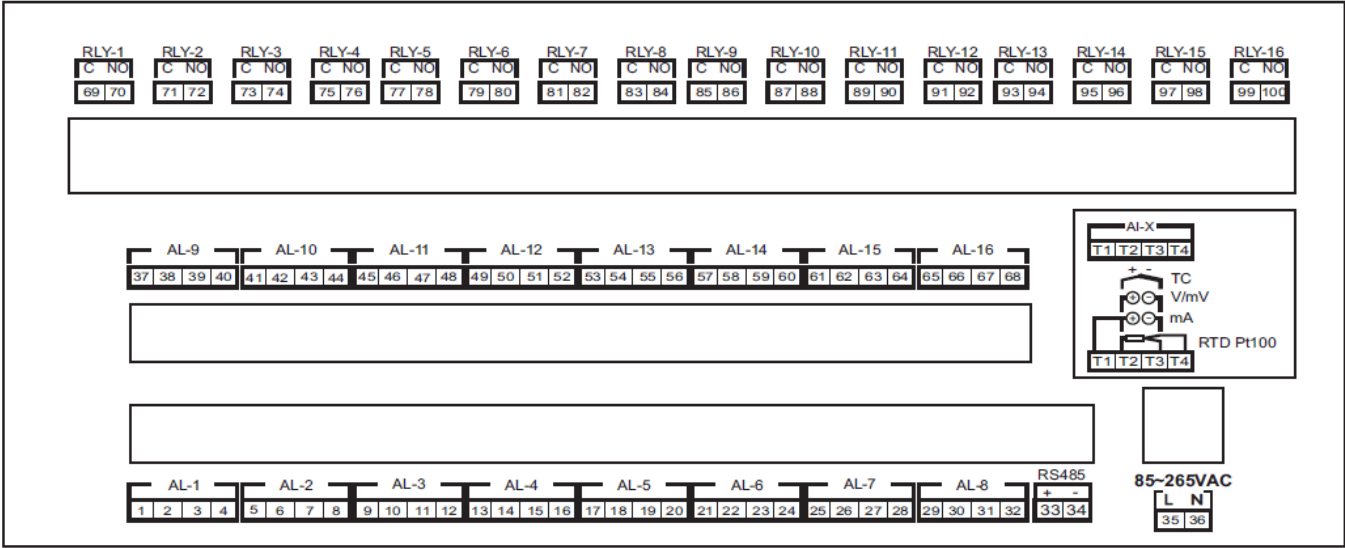
Old Connections Version
8 Channel



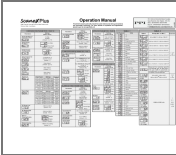
16 Channel



New Connections Version



Documents / Resources



[PPI Scanex Plus 8-16 Channel Universal Process Scanner](#) [pdf] Instruction Manual
Scanex Plus 8-16 Channel Universal Process Scanner, Scanex Plus, 8-16 Channel Universal P
rocess Scanner, Universal Process Scanner, Process Scanner, Scanner

References

- [Factory Automation Products India | Automation Solutions in India](#)