



PPI UPI-5D Universal Process Indicator and Controller Instruction Manual

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PPI UPI-5D Universal Process Indicator and Controller



Product Information

UPI-5D Universal Process Indicator with Enhanced Features

The UPI-5D is a process indicator with enhanced features that can display and monitor various input types. It has operator parameters, alarm parameters, retransmission parameters, input configuration parameters, and supervisory parameters. The device has adjustable alarm setpoints and hysteresis, alarm inhibition, alarm logic, and alarm latch functionality. It also has retransmission output options, square root selection, constant multiplier and resolution settings, and digital filtering capabilities. The UPI-5D comes with a brief operation manual for quick reference.

Product Usage Instructions

1. **Operator Parameters:** Use PAGE 0 to adjust the maximum and minimum process values, reset command, reset password, and alarm setpoints.
2. **Alarm Parameters:** Use PAGE 10 to adjust the alarm types, setpoints, hysteresis, inhibition, logic, and latch functionality for Alarm-1 and Alarm-2.
3. **Retransmission Parameters:** Use PAGE 11 to adjust the retransmission output type, low and high values, and selected input type.
4. **Input Configuration Parameters:** Use PAGE 12 to adjust the square root selection, constant multiplier and resolution settings, input type, resolution, units, signal low and high values, DC range low and high values, offset, and digital filter.
5. **Supervisory Parameters:** Use PAGE 13 to enable or disable alarm SP adjustment on the operator page and remote alarm acknowledge switch.
6. **For more details on operation and application:** Please log on to www.ppiindia.net

PARAMETERS

OPERATOR PARAMETERS

Parameters	Settings (Default Value)
Maximum PV Hi	View Only (Default : NA)
Minimum PV Lo	View Only (Default : NA)
Reset Command rst	no No YES Yes (Default : No)
Reset Password CODE	0 to 250 (Default : 0)
Alarm-1 Setpoint A1SP	Min. to Max Range specified for the selected Input Type (Default : Min. or Max Range)
Alarm-2 Setpoint A2SP	Min. to Max Range specified for the selected Input Type (Default : Min. or Max Range)

ALARM PARAMETERS

Parameters	Settings (Default Value)
Alarm-1 Type AL_1	none None P_Lo Process Low P_hi Process High (Default : None)
Alarm-1 Setpoint A1SP	Min. to Max Range specified for the selected Input Type (Default : Min. or Max Range)
Alarm-1 Hysteresis A1HY	1 to 999 or 0.1 to 999.9 (Default : 2.0)
Alarm-1 Inhibit A1h	no No YES Yes (Default : No)
Alarm-1 Logic A1LG	norm Normal rev Reverse (Default : Normal)
Alarm-1 Latch A1Lt	no No YES Yes (Default : No)
Alarm-2 Type AL_2	none None P_Lo Process Low P_hi Process High (Default : None)
Alarm-2 Hysteresis A2HY	1 to 999 or 0.1 to 999.9 (Default : 2.0)
Alarm-2 Inhibit A2h	no No YES Yes (Default : No)
Alarm-2 Logic A2LG	norm Normal rev Reverse (Default : Normal)
Alarm-2 Latch A2Lt	no No YES Yes (Default : No)

RETRANSMISSION PARAMETERS

Parameters	Settings (Default Value)
Retransmission (recorder) Output Type reLo	0-20 0 to 20 mA 4-20 4 to 20 mA 0-5 0 to 5 Volts 0-10 0 to 10 Volts (Default : 0 to 20 mA)
Retransmission (recorder) Low reLl	Min. to Max. Range specified for the selected Input Type (Default : -200)
Retransmission (recorder) High reHh	Min. to Max. Range specified for the selected Input Type (Default : 1376)

INPUT CONFIGURATION PARAMETERS

Parameters	Settings (Default Value)
Square Root Selection Sqrt	no No yes Yes (Default : No)
Const Multiplier Resolution CLn	1 0.1 0.01 0.001 (Default : 1)
Const Multiplier CLUL	1 to 9999 (Default : 0)
Input Type inPt	Refer Table 1 (Default : Type K)
Resolution rSLn	Refer Table 1 (Default : 1°C)
Units Unit	°C °F (Default : °C)

DC Signal Low 50Lo	<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 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 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 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																				
DC Signal High 50Hi	<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 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 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 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	-19999 to 30000 (Default : 0.0)																					
DC Range High rHi	-19999 to 30000 (Default : 100.0)																					
Offset 0F5t	For DC Lin. Volts/Current -19999 to 30000 Counts For Thermocouple/RTD -1999 to 3000 or -1999.9 to 3000.0 (Default : 0)																					
Digital Filter Filt (Setting the Value to 0.0 disables the filter)	0.0 to 60.0 Seconds (Default : 2.0 sec.)																					

SUPERVISORY PARAMETERS

Parameters	Settings (Default Value)
Alarm SP Adjustment On Operator Page ALSP	dsbl Disable Enbl Enable (Default : Disable)
Remote Alarm Acknowledge Switch rnt	dsbl Disable Enbl Enable (Default : Disable)
Recorder rEC	dsbl Disable Enbl Enable (Default : Disable)
Process Value High-low Monitoring HlLo	no No YES Yes (Default : No)
Password for Resetting PV High-low CODE	0 to 250 (Default : 0)
Baud Rate bAUD	4.8 4800 9.6 9600 19.2 19200 38.4 38400 57.6 57600 (Default : 9.6)
Parity PAR.	none None Even Even Odd Odd (Default : Even)
Serial ID Number Id	1 to 127 (Default : 1)
Serial Write Permission CoñE	no No YES Yes (Default : No)

USER LINEARISATION PARAMETERS

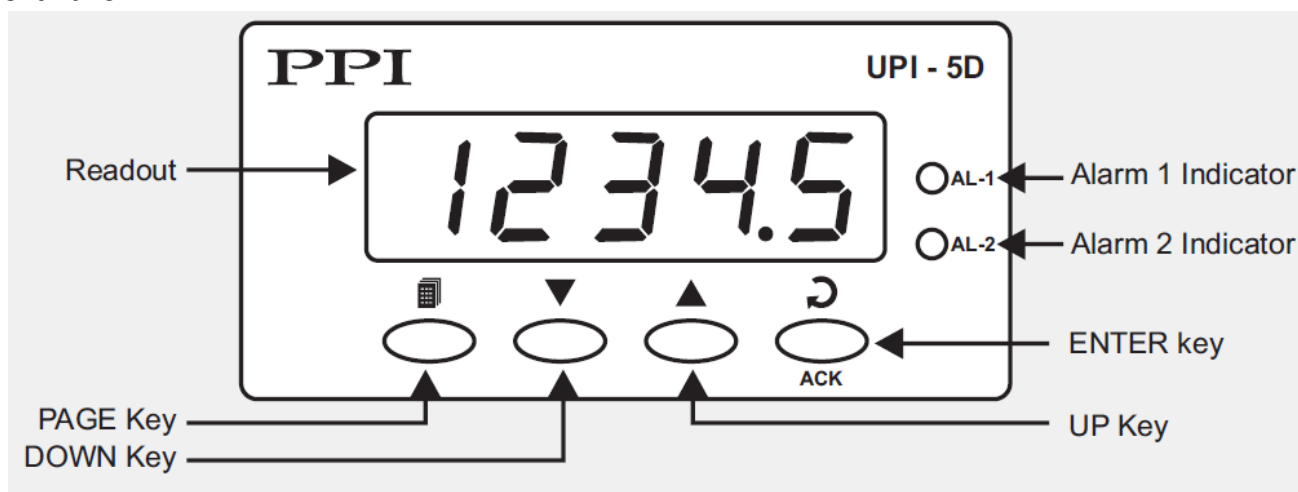
Parameters	Settings (Default Value)
User Linearization Setting Code CODE	0 to 9999 (Default : 0)
User Linearization UL in	no No YES Yes (Default : No)
Total Break Points Pnt5	2 to 32 (Default : 2)
Break Point Number Co.ord	1 to 32 (Default : 1)
Actual Value For Break Point (X Co-ord) A.Pnt	-1999 to 9999 (Default : Undefined)
Derived Value For Break Point (Y Co-ord) d.Pnt	-1999 to 9999 (Default : Undefined)

TABLE 1

Option	What it means	Range (Min. to Max.)	Resolution
tc-j	Type J Thermocouple	0.0 to +960.0°C / +32.0 to +1760.0°F	1 °C/°F or 0.1 °C/°F
tc-k	Type K Thermocouple	-200.0 to +1376.0°C / -328.0 to +2508.0°F	
tc-t	Type T Thermocouple	-200.0 to +387.0°C / -328.0 to +728.0°F	
tc-r	Type R Thermocouple	0.0 to +1771.0°C / +32.0 to +3219.0°F	
tc-s	Type S Thermocouple	0.0 to +1768.0°C / +32.0 to +3214.0°F	
tc-b	Type B Thermocouple	0.0 to +1826.0°C / +32.0 to +3218.0°F	
tc-n	Type N Thermocouple	0.0 to +1314.0°C / +32.0 to +2397.0°F	
resu	Reserved for customer specific Thermocouple type not listed above. The type shall be specified in accordance with the ordered (optional on request) Thermocouple type.		
rtd	3-wire, RTD Pt100	-199.9 to +600.0°C / -328.0 to +1112.0°F	1 °C/°F or 0.1 °C/°F
0-20	0 to 20mA DC current	-19999 to 30000 units	1 0.1 0.01 0.001 units
4-20	4 to 20mA DC current		
0080	0 to 80mV DC voltage		
resu	Reserve		
1.25	0 to 1.25V DC voltage		
5.0	0 to 5.0V DC voltage		
10.0	0 to 10.0V DC voltage		
1-5	1 to 5.0V DC voltage		

FRONT PANEL LAYOUT

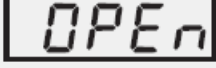
Front Panel



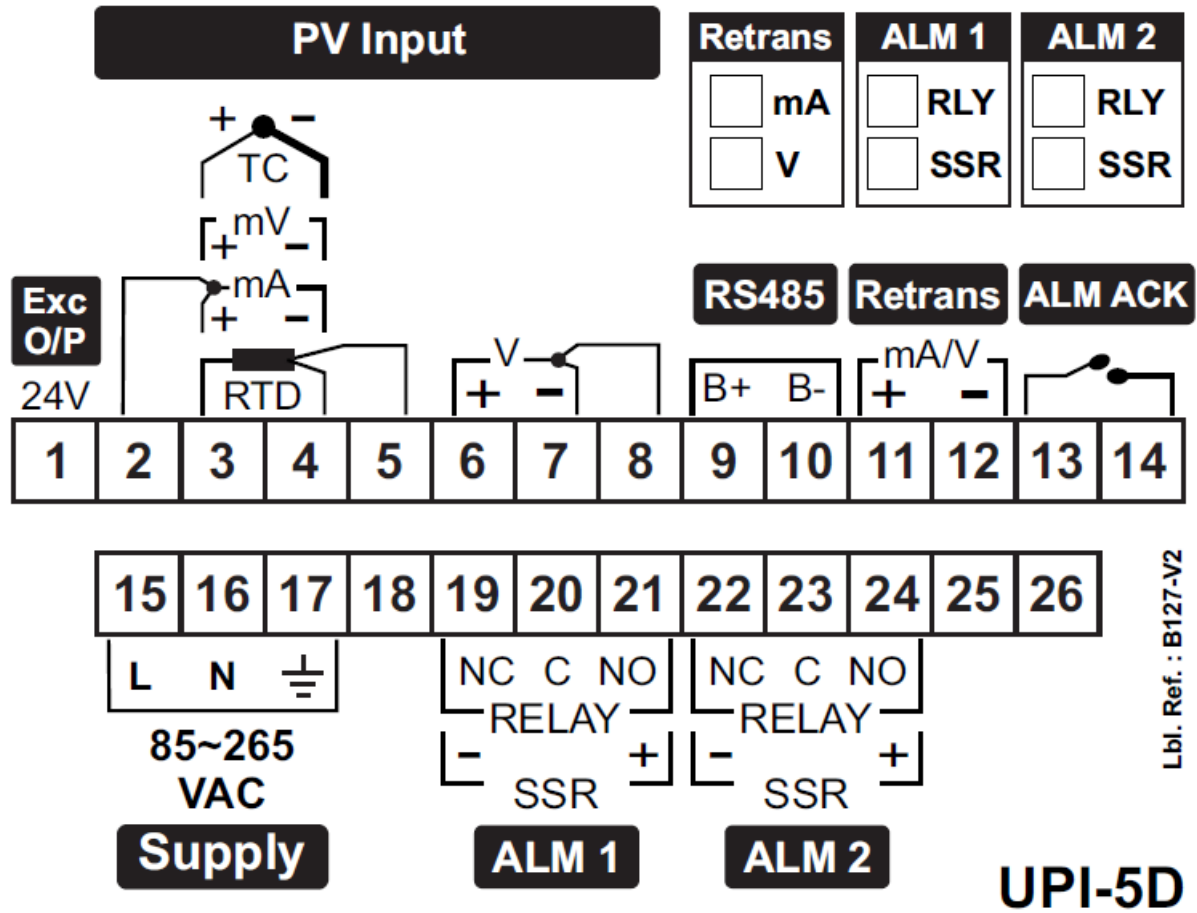
Keys Operation

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.
ACK 	ENTER	If Readout is showing Parameter Name in the setup mode then upon pressing this key the Readout shows the value for the parameter. If Readout is showing Parameter Value in the setup mode then upon pressing this key the set parameter value is stored and the Readout shows the next Parameter Name. Note : While in Main mode, this key can be used to acknowledge any pending Alarm(s) to de-activate alarm relay(s).

PV Error Indications

Message	Error Type	Cause
	Over-range	PV above Max. Range
	Under-range	PV below Min. Range
	Sensor Open	Thermocouple / RTD broken

ELECTRICAL CONNECTIONS



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

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Documents / Resources

	PPI UPI-5D Universal Process Indicator and Controller [pdf] Instruction Manual UPI-5D Universal Process Indicator and Controller, UPI-5D, Universal Process Indicator and Controller, Process Indicator and Controller, Indicator and Controller, Controller
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References

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