

UPI-5D Plus

5-Digit Advanced
Universal Process Indicator

Operation Manual

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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OPERATOR PARAMETERS : PAGE 0	
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 [CDE]	0 to 250 (Default : 0)
Alarm-1 Setpoint [ALSP]	Min. to Max Range specified for the selected Input Type (Default : Min. or Max Range)
Alarm-2 Setpoint [AL2SP]	Min. to Max Range specified for the selected Input Type (Default : Min. or Max Range)

RETRANSMISSION PARAMETERS : PAGE 11	
Parameters	Settings (Default Value)
Retransmission (recorder) Output Type [rECO]	[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 [rECL]	Min. to Max. Range specified for the selected Input Type (Default : -200)
Retransmission (recorder) High [rECH]	Min. to Max. Range specified for the selected Input Type (Default : 1376)

Parameters	Settings (Default Value)
Square Root Selection [SqrT]	[d5bL] Disable [EnbL] Enable (Default : Disable)
Const Multiplier Resolution [CrLn]	1 0.1 0.01 0.001 (Default : 1)
Const Multiplier [CrUL]	1 to 30000 (Default : 1000)

ALARM ACK PARAMETER : PAGE 2	
Parameters	Settings (Default Value)
Alarm Acknowledge [ALCP]	[no] No [yEs] Yes (Default : No)

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 +3318.0°F	
[TC-N]	Type N Thermocouple	0.0 to +1314.0°C / +32.0 to +2397.0°F	
[TC-E]	Type E Thermocouple	-200.0 to +1000.0°C / -328.0 to +1832.0°F	
[r.100]	3-wire, RTD Pt100	-199.9 to +600.0°C / -328.0 to +1112.0°F	
[r.1000]	3-wire, RTD Pt1000		
[20]	-20 to 20mA DC current	-19999 to 99999 units	1 0.1 0.01 0.001 units
[4-20]	4 to 20mA DC current		
[0080]	-80 to 80mV DC voltage	-19999 to 30000 units	
[0.160]	-160 to 160mV DC voltage		
[50]	-5 to 5.0V DC voltage	-19999 to 99999 units	
[100]	-10 to 10.0V DC voltage		
[1-5]	1 to 5.0V DC voltage		

INPUT CONFIGURATION PARAMETERS : PAGE-12			
Parameters	Settings (Default Value)		
Input Type [InPt]	Refer Table 1 (Default : Type K)		
Resolution [rSLn]	Refer Table 1 (Default : 1°C)		
Units [Un, t]	[°C] °C [°F] °F (Default : °C)		
DC Signal Low [SCLo]	Input Type	Settings	Default
	-20 to 20 mA	-20.00 to Signal High	-20.00
	4 to 20 mA	4.00 to Signal High	4.00
	-80 to 80 mV	-80.00 to Signal High	-80.00
	-160 to 160 mV	-160.00 to Signal High	-160.00
	-5 to 5 V	-5.000 to Signal High	-5.000
DC Signal High [SCHi]	Input Type	Settings	Default
	-20 to 20 mA	Signal Low to 20.00	20.00
	4 to 20mA	Signal Low to 20.00	20.00
	-80 to 80 mV	Signal Low to 80.00	80.00
	-160 to 160 mV	Signal Low to 80.00	80.00
	-5 to 5 V	Signal Low to 5.000	5.000
DC Range Low [rLo]	For DC Lin. mV -19999 to 30000 Counts For DC Lin. Volts/Current -19999 to 99999 Counts (Default : 0)		
	For DC Lin. mV -19999 to 30000 Counts For DC Lin. Volts/Current -19999 to 99999 Counts (Default : 100)		
	For DC Lin. mV -19999 to 30000 Counts For DC Lin. Volts/Current -19999 to 99999 Counts For Thermocouple/RTD -1999 to 3000 or -1999.9 to 3000.0 (Default : 0)		
	0.0 to 60.0 Seconds (Default : 2.0 sec.)		
Offset [OFSE]	For DC Lin. mV -19999 to 30000 Counts For DC Lin. Volts/Current -19999 to 99999 Counts For Thermocouple/RTD -1999 to 3000 or -1999.9 to 3000.0 (Default : 0)		
	0.0 to 60.0 Seconds (Default : 2.0 sec.)		
Digital Filter [FLt]	(Setting the Value to 0.0 disables the filter)		

SUPERVISORY PARAMETERS : PAGE-13	
Parameters	Settings (Default Value)
Alarm SP Adjustment On Operator Page [ALSP]	[d5bL] Disable [EnbL] Enable (Default : Disable)
Front Panel Alarm Acknowledge [FPALCP]	[d5bL] Disable [EnbL] Enable (Default : Enable)
Remote Alarm Acknowledge [rALCP]	[d5bL] Disable [EnbL] Enable (Default : Disable)
Recorder [rEC]	[d5bL] Disable [EnbL] Enable (Default : Disable)
Process Value High-low Monitoring [HLo]	[no] No [yEs] Yes (Default : No)
Password for Resetting PV High-low [CDE]	0 to 250 (Default : 0)
Baud Rate [BAUD]	[48] 4800 [96] 9600 [192] 19200 (Default : 9.6)
Parity [PARi]	[nonE] None [EveN] Even [Ode] Odd (Default : Even)
Serial ID Number [id]	1 to 127 (Default : 1)
Serial Write Permission [LoNE]	[no] No [yEs] Yes (Default : Yes)

ALARM PARAMETERS : PAGE 10	
Parameters	Settings (Default Value)
Alarm-1 Type [AL-1]	[nonE] None [P-Lo] Process Low [P-Hi] Process High (Default : None)
Alarm-1 Setpoint [ALSP]	Min. to Max Range specified for the selected Input Type (Default : Min. or Max Range)
Alarm-1 Hysteresis [ALHY]	For DC Lin. millivolts 1 to 30000 Counts For DC Lin. Volts/Current 1 to 99999 Counts For Thermocouple/RTD 1 to 1999 or 0.1 to 1999.9 (Default : 2.0)
Alarm-1 Inhibit [ALIH]	[no] No [yEs] Yes (Default : No)
Alarm-1 Logic [ALLG]	[norN] Normal [rEU] Reverse (Default : Normal)
Alarm-1 Latch [ALLE]	[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 Setpoint [AL2SP]	Min. to Max Range specified for the selected Input Type (Default : Min. or Max Range)
Alarm-2 Hysteresis [AL2HY]	For DC Lin. millivolts 1 to 30000 Counts For DC Lin. Volts/Current 1 to 99999 Counts For Thermocouple/RTD 1 to 1999 or 0.1 to 1999.9 (Default : 2.0)
Alarm-2 Inhibit [AL2IH]	[no] No [yEs] Yes (Default : No)
Alarm-2 Logic [AL2LG]	[norN] Normal [rEU] Reverse (Default : Normal)
Alarm-2 Latch [AL2LE]	[no] No [yEs] Yes (Default : No)

USER LINEARISATION PARAMETERS : PAGE-33	
Parameters	Settings (Default Value)
User Linearization Setting Code [CDE]	0 to 9999 (Default : 0)
User Linearization [ULn]	[no] No [yEs] Yes (Default : No)
Total Break Points [PntS]	2 to 32 (Default : 2)
Break Point Number [CoDr]	1 to 32 (Default : 1)
Actual Value For Break Point (X Co-ord) [APnt]	-19999 to 30000 (Default : Undefined)
Derived Value For Break Point (Y Co-ord) [dPnt]	-19999 to 30000 (Default : Undefined)

