

**INPUT / OUTPUT CONFIGURATION PARAMETERS : PAGE - 12**

Parameters	Settings (Default Value)
Input Type <b>InPt</b>	Refer Table 1 (Default : As per Version)
Offset for PV <b>OFSE</b>	-1999 to 9999 or -199.9 to 999.9 (Default : 0)
Digital Filter for PV <b>FLtr</b>	0.5 to 25.0 Seconds (in steps of 0.5 Seconds) (Default : 1.0)
Output-1 Function <b>OP1F</b>	<b>ALrñ</b> Alarm <b>CntL</b> Control (Default : Control)
Setpoint Low <b>SPLO</b>	Min. Range to Setpoint High for the selected Input type (Default :Min. Range for the selected Input Type)
Setpoint High <b>SPHi</b>	Setpoint Low to Max. Range for the selected Input type (Default :Max. Range for the selected Input Type)
Output-1 Control Action <b>ACT</b>	<b>TP</b> TP <b>On.Off</b> On-Off (Default : On-Off)
Output-1 Control Logic <b>LOG</b>	<b>dir</b> Direct <b>rEv</b> Reverse (Default : Reverse)
Output-2 Function Selection <b>OP2F</b>	<b>none</b> None <b>ALrñ</b> Alarm <b>CntL</b> Control (Default : None)
Output-2 Setpoint as Offset to Control Setpoint (SP) <b>OFSP</b>	<b>no</b> No <b>YES</b> Yes (Default : No)
Output-2 Control Action <b>ACT</b>	<b>TP</b> TP <b>On.Off</b> On-Off (Default : On-Off)
Output-2 Control Logic <b>LOG2</b>	<b>dir</b> Direct <b>rEv</b> Reverse (Default : Reverse)

**OUTPUT 2 FUNCTION PARAMETERS : PAGE - 11**

OP2 Function : Alarm	
Parameters	Settings (Default Value)
Alarm 2 Type <b>A2TY</b>	<b>P_Lo</b> Process Low <b>P_hi</b> Process High <b>dEu</b> Deviation Band <b>bAnd</b> Window Band (Default : Process Low)
Alarm 2 Inhibit <b>A2IH</b>	<b>no</b> No <b>YES</b> Yes (Default : No)
Alarm 2 Logic <b>A2LG</b>	<b>norm</b> Normal <b>rEv</b> Reverse (Default : Normal)
OP 2 Function : ON-OFF Control	
Parameters	Settings (Default Value)
Hysteresis <b>HYS2</b>	1 to 999 or 0.1 to 99.9 (Default : 2 or 0.2)
Time Delay <b>dLY2</b>	0 to 600 Seconds (in steps of 0.5 secs.) (Default : 0 sec)
OP 2 Function : Time-Proportionating Control	
Parameters	Settings (Default Value)
Cycle Time <b>CT2</b>	0.5 to 120.0 Seconds (in steps of 0.5 secs.) (Default : 20.0 sec)
Proportional Band <b>Pb2</b>	0.1 to 999.9 (Default : 10.0 sec)
OUTPUT 1 FUNCTION PARAMETERS : PAGE - 10	
OP1 Function : Alarm	
Parameters	Settings (Default Value)
Alarm 1 Type <b>A1TY</b>	<b>P_Lo</b> Process Low <b>P_hi</b> Process High (Default : Process Low)
Alarm 1 Inhibit <b>A1IH</b>	<b>no</b> No <b>YES</b> Yes (Default : Yes)
Alarm 1 Logic <b>A1LG</b>	<b>norm</b> Normal <b>rEv</b> Reverse (Default : Reverse)

**OP1 Function : ON-OFF Control**

Parameters	Settings (Default Value)
Hysteresis <b>HYS</b>	1 to 999 or 0.1 to 99.9 (Default : 2 or 0.2)
Time Delay <b>dLY</b>	0 to 600 Seconds (in steps of 0.5 secs.) (Default : 0 sec)
OP1 Function : Time-Proportionating Control	
Parameters	Settings (Default Value)
Cycle Time <b>CT</b>	0.5 to 120.0 Seconds (in steps of 0.5 secs.) (Default : 20.0 sec)
Proportional Band <b>Pb</b>	0.1 to 999.9 (Default : 10.0 sec)

**SUPERVISORY PARAMETERS : PAGE - 13**

Parameters	Settings (Default Value)
Clear Manual Reset Value for Output-1 <b>CLR</b>	<b>no</b> No <b>YES</b> Yes (Default : No)
Clear Manual Reset Value for Output-2 <b>CLR2</b>	<b>no</b> No <b>YES</b> Yes (Default : No)
Reset Lock <b>rLOC</b>	<b>no</b> No <b>YES</b> Yes (Default : No)
OP2 Setpoint Editing Permission on Operator Page <b>SPDP</b>	<b>dSbL</b> Disable <b>EnbL</b> Enable (Default : Enable)

**OPERATOR PARAMETERS : PAGE - 0**

Parameters	Settings (Default Value)
Manual Reset Command for Output-1 <b>rSE</b>	<b>no</b> No <b>YES</b> Yes (Default : N/A)
Manual Reset Command for Output-2 <b>rSE2</b>	<b>no</b> No <b>YES</b> Yes (Default : N/A)

**OP2 Function : Alarm**

Parameters	Settings (Default Value)
Alarm-2 Setpoint <b>A2SP</b>	Minimum to Maximum Range specified for the selected Input Type (Default : 0)
Alarm-2 Deviation Band <b>A2dE</b>	-1999 to 9999 or -199.9 to 999.9 (Default : 3 or 0.3)
Alarm-2 Window Band <b>A2bA</b>	3 to 999 or 0.3 to 99.9 (Default : 3 or 0.3)
OP2 Function : Control	
Output-2 Control Setpoint <b>SP2</b>	(Min. Range — SP) to (Max. Range—SP) (Default : 0)
Control Setpoint (SP) Locking	
Setpoint Locking <b>SLOC</b>	<b>no</b> No <b>YES</b> Yes (Default : No)

**INDICATIVE PARAMETERS : PAGE - 1**

Parameters	What it means
Output-1 % Power <b>POr</b>	0.0% to 100.0% Proportional Power for Output-1
Output-1 Manual Reset Value <b>SER</b>	0 to Proportional Band Setpoint Bias (Manual ResetValue for Output-1)
Output-2 % Power <b>POr2</b>	0.0% to 100.0% Proportional Power for Output-2
Output-2 Manual Reset Value <b>SER2</b>	0 to Proportional Band Setpoint Bias (Manual Reset Value for Output-2)

**TABLE- 1**

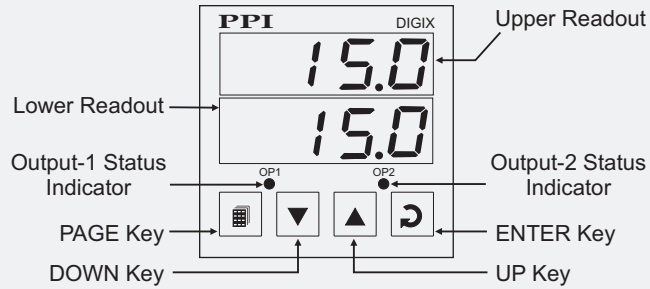
Option	Range (Min. to Max. )	Resolution
Controller Version : J / K Thermocouple		
<b>TC-J</b> J Type T/C	0 to +960°C / +32 to +1760°F	1°C
<b>TC-K</b> K Type T/C	-200 to +1375°C / -328 to +2508°F	1°C
Controller Version : R / S Thermocouple		
<b>TC-R</b> R Type T/C	0 to +1770°C / +32 to +3218°F	1°C
<b>TC-S</b> S Type T/C	0 to +1765°C / +32 to +3209°F	1°C
Controller Version : RTD Pt100 Sensor		
<b>RTD</b> 3-wire, RTD Pt100	-199 to +600°C / -328 to +1112°F	1°C
<b>RTD1</b> 3-wire, RTD Pt100	-199.9 to 600.0°C / -199.9 to 999.9°F	0.1°C

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## FRONT PANEL LAYOUT

**Front Panel**



**Keys Operation**

Symbol	Key	Function
	PAGE	Press to enter or exit set-up mode.
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; holding pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; holding pressed speeds up the change.
	ENTER	Press to store the set parameter value and to scroll to the next parameter on the PAGE.

**PV Error Indications**

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

## ELECTRICAL CONNECTIONS

