

PV Display
Run Mode



Ambient	Applicable only if input type is TC



%Power	Applicable only in Auto Mode



Control Set Point 1	Range Depending on PV sensor type selected.
C1SP	100



*Alarm Set Point 1	Range Depending on PV sensor type selected.
A1SP	100



Alarm Set Point 2	Range Depending on PV sensor type selected.
A2SP	100

*Parameter is only shows if output type is linear

Auto Tune
Mode



¹ Auto Tune	Start / Stop Auto Tuning Process
YES / NO	0 : NO (Stop Auto Tuning) 1 : YES (Start Auto Tuning)
RUN	NO



² Proportional Band	Adjust Proportional Band 0 to 9999 or 0.0 to 999.9
Pb	100



¹ Integral Time	Adjust Integral Time 0 to 1000
Ti	60



³ Derivative Time	Adjust Derivative Time 0 to 180
Td	0



Cycle-Time	Adjust Cycle Time For, SSR o/p: (1 - 60 sec) Relay o/p: (10 - 300 sec)
Ct	10



² Output Direction	Set Output Direction
DIR / REV	0 : REV (REVERSE) 1 : DIR (Direct)
ODIR	0



⁴ Manual Reset	Adjust Manual Reset Value It is used to shift P Band for critical Controlling situations. (Applicable only if Control O/P is "P") -(PB/2) to +(PB/2) EX. If PB = 50, SP = 100, O.DIR = REV MR = 0 MR = 25																
MR	0																
<table><tr><td>PV</td><td>%POWER</td><td>PV</td><td>%POWER</td></tr><tr><td><= 75</td><td>100 %</td><td><= 100</td><td>100 %</td></tr><tr><td>100</td><td>50 %</td><td>125</td><td>50 %</td></tr><tr><td>>= 125</td><td>0 %</td><td>>= 150</td><td>0 %</td></tr></table>	PV	%POWER	PV	%POWER	<= 75	100 %	<= 100	100 %	100	50 %	125	50 %	>= 125	0 %	>= 150	0 %	
PV	%POWER	PV	%POWER														
<= 75	100 %	<= 100	100 %														
100	50 %	125	50 %														
>= 125	0 %	>= 150	0 %														



³ Sampling Rate	Adjust Sampling Rate. Its acts like Derivative Factor. It is used to decrease effect of D term in PID output for some critical operating condition 0.01 to 1.00
ALPH	100



³ Sampling Period	Set Sampling Period.
SP	0
200 / 500 / 1	0 : 200 ms 1 : 500 ms 2 : 1 sec



Ramp-Rate type	none / min.r / hr.r
ramp	0:none 1:min.r 2:hr.r



⁵ Ramp rate value	0.1 to 999.9 Degree per minutes or hour
ramp	0.1



⁵ Soak rate	1 to 9999 minutes
soak	100



⁵ Soak type	Shod / SrSt 0:s.hod 1:s.rst
soak	SrSt

¹ Parameter is only shows if control type is PI or PID.
² Parameter is only shows if control type is P or PI or PID.
³ Parameter is only shows if control type is PID.
⁴ Parameter is only shows if control type is P.
⁵ Parameter is only shows if Ramp Rate is not None.

CONF
CONF



Input Type	Set PV Input Type
INPT	E/E J /E P /E t /E b /E r /E S /rtd.1 /rtd/0-5u /1-5u /0-10



ZERO	Automatically change to the Input Lower Range with changing of Input Type , Can be set to any value within the Input Range & less the SPAN Value.
ZERO	-200



Span	Automatically change to the Input Higher Range with changing of Input Type , Can be set to any value within the Input Range & greater the ZERO Value.
SPAN	1000



Offset	Offset Value						
OFFSET	00						
	<table><tr><th>Input type</th><th>Range</th></tr><tr><td>RTD/ Thermocouple</td><td>-100.0°C to +100.0°C</td></tr><tr><td>Linear</td><td>-1000 to +1000</td></tr></table>	Input type	Range	RTD/ Thermocouple	-100.0°C to +100.0°C	Linear	-1000 to +1000
Input type	Range						
RTD/ Thermocouple	-100.0°C to +100.0°C						
Linear	-1000 to +1000						



Filter	Enable or Disable Filter for PV Input
FILTER	YES 0 : NO 1 : YES



¹ Type of Set Point	Set Type of Set Point L-on / H-on
LSP / L-ON	0 : L-ON (Lower ON) 1 : H-ON (Higher ON)



OPEN Sensor Status	Set Control O/P & Retransmission state when Input OPEN condition. doon / UP
OPES	UP 0 : DOWN 1 : UP



¹ Relay delay	Relay Delay is amount of time (in sec), that Relay 1 will wait before getting ON after the ON condition occurs.
rdt	1 1 to 99 sec



¹ Hysteresis - 1 (For Relay-1)	Hysteresis Value for Relay-1 during ON-OFF type Control.												
HY1	1												
	<table><tr><td>1 to 100</td><td>TC & RTD Input</td></tr><tr><td>0.1 to 100.0</td><td>RTD.1 Input</td></tr><tr><td>1 to 100</td><td>Linear Input with DP=0</td></tr><tr><td>0.1 to 100.0</td><td>Linear Input with DP=1</td></tr><tr><td>0.01 to 10.00</td><td>Linear Input with DP=2</td></tr><tr><td>0.001 to 1.000</td><td>Linear Input with DP=3</td></tr></table>	1 to 100	TC & RTD Input	0.1 to 100.0	RTD.1 Input	1 to 100	Linear Input with DP=0	0.1 to 100.0	Linear Input with DP=1	0.01 to 10.00	Linear Input with DP=2	0.001 to 1.000	Linear Input with DP=3
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0.001 to 1.000	Linear Input with DP=3												



² Decimal Point	Set position of Decimal Point on Display.
dP	1
	0 / 00 / 000 / 0000 0 : 0 1 : 0.0 2 : 0.00 3 : 0.000



Display Setpoint	Set which Set Point to show in SV display in RUN mode while device is in Auto Mode
d1SP / A2SP / A1SP	0 : C1.SP (Control Set Point 1) 1 : A2.SP (Alarm Set Point 2) 2 : A1.SP (Alarm Set Point 1)(only shows if output type is Linear)
d1SP	C1SP



Brightness	Adjust Brightness of the 7-segment Display.
brht	100 10 to 100



SR NO	Unit ID for Modbus-RS485 Communication
srno	1 1 to 247



BAUD RATE	Set Modbus RS485 Communication Baud Rate
baud	9600 0 : 9600 (9600 bps) 1 : 19.2K (19200 bps) 2 : 38.4K (38400 bps)



Retransmission-1	Retransmission-1 Output Type, This output is according to PV input. Zero & Span acts as Min & Max value of retransmission o/p scale respectively.
rti	4-20 0-5u / 1-5u / 0-10 / 4-20 / 0-20 0 : 0-5V 1 : 1-5V 2 : 0-10V 3 : 4-20mA 4 : 0-20mA Voltage or Current is Jumper Selectable from the Hardware.



