PV Display Run Mode

Ambient	Applicable only if input type is TC

%Power	Applicable only in Auto Mode

SET1

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

SET1

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

SET2

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

*Parameter is only shows if output type is linear

Auto Tune Mode

SET1

[1]Auto Tune AtUn no	Start / Stop Auto Tuning Process YES / no 0 : NO (Stop Auto Tuning) 1 : YES (Start Auto Tuning)

SET1

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

SET1

[1]Integral Time ti 60	Adjust Integral Time 0 to 1000

SET1

[3]Derivative Time td 0	Adjust Derivative Time 0 to 180

SET1

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

SET1

[2]Output Direction Odir 0	Set Output Direction dir / rEv 0 : REV (REVERSE) 1 : DIR (Direct)

SET1

[4]Manual Reset mr 0	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

PV	%POWER
<= 75	100 %
100	50 %
>= 125	0 %

PV	%POWER
<= 100	100 %
125	50 %
>= 150	0 %

SET1

[3]Sampling Rate ALPH 100	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

SET1

[3]Sampling Period SAP 0	Set Sampling Period. 200 / 500 / 1 0 : 200 ms 1 : 500 ms 2 : 1 sec

SET1

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

SET1

[5]Ramp rate value rAPr 0.1	0.1 to 999.9 Degree per minutes or hour

SET1

[5]Soak rate SOPr 100	1 to 9999 minutes

SET1

[5]Soak type SOPt SrSt	Shod / SrSt 0:s.hod 1:s.rst

[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

SET1

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

SET1

ZERO 2Er0 -200	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.

SET1

Span SPAn 1000	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.

SET1

Offset OFSt 00	Offset Value

Input type	Range
RTD/ Thermocouple	-100.0°C to +100.0°C
Linear	-1000 to +1000

SET1

Filter FLtr YES	Enable or Disable Filter for PV Input no / YES 0 : NO 1 : YES

SET1

[1]Type of Set Point tSP1 L-ON	Set Type of Set Point L-on / H-on 0 : L-ON (Lower ON) 1 : H-ON (Higher ON)

SET1

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

SET1

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

SET1

[1]Hysteresis - 1 (For Relay-1) HY1 1	Hysteresis Value for Relay-1 during ON-OFF type Control.

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

SET1

[2]Decimal Point dP 1	Set position of Decimal Point on Display. 0 / 0.0 / 0.00 / 0.000 0 : 0 1 : 0.0 2 : 0.00 3 : 0.000

SET1

Display Setpoint diSP C1SP	Set which Set Point to show in SV display in RUN mode while device is in Auto Mode C1SP /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)

SET1

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

SET1

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

SET1

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

SET1

Retrans-mission 1 rt1 4-20	Retransmission-1 Output Type, This output is according to PV input. Zero & Span acts as Min & Max value of retransmission o/p scale respectively. 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.

SET1

[3]Retrans-mission-1 Direction
rd-1 | dir

Set Direction for the Retransmission Output-1
rEu / dir
0 : REV (REVERSE)
1 : DIR (DIRECT)
EX. If i/p is RTD.1,ZERO=0,SPAN=600, RTR.1=4-20mA&
RT.D.1=DIR
when PV = 0, RTR o/p = 4mA
PV = 300, RTR o/p = 12mA
PV = 600, RTR o/p = 20mA
RT.D.1=REV
when PV = 0, RTR o/p = 20mA
PV = 300, RTR o/p = 12mA
PV = 600, RTR o/p = 4mA

SET1

Retrans-mission 2
rt 2 | 4-20

Retransmission-2 Output Type, This output is according to PV input.
Zero & Span acts as Min & Max value of retransmission o/p scale respectively.
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.

SET1

Retrans-mission-2 Direction
rd-1 | dir

Set Direction for the Retransmission Output-1
rEu / dir
0 : REV (REVERSE)
1 : DIR (DIRECT)

SET1

Output Type
Ot | rELY

Output Type
rELY / SSr / L in
0 : RELY (Relay)
1 : SSR (Voltage Pulse Output)
2 : LIN (Linear)(Linear and SSR shows if control output is not on-off)

SET1

Control Output Type
CoP | P

Select Controlling Type for Output
P /P i / P id / onoF
0 : P (Proportional Control)
1 : PI
2 : PID
3 : ON-OFF(not shows if output type is Linear)

SET1

Control Output Low Limit in %
CoLo | 00

Control Output Low Limit in %.
0.0 to 100.0 %
(It will be always less then CO.HI)

SET1

Control Output High Limit in %
CoH i | 100.0

Control Output High Limit in %.
0.0 to 100.0 %
(It will be always greater then CO.LO)

SET1

[4]Alarm Type -1
A1tP | 6

Alarm Operations
0 to 15

SET1

Alarm Type -2
A2tP | 6

Alarm Operations
0 to 15

SET1

[4]Alarm 1 Hysteresis
A1HY | 1

Set Hysteresis For Alarm 1.

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

SET1

Alarm 2 Hysteresis
A2HY | 1

Set Hysteresis For Alarm 2.

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

SET1

[4]Alarm 1 Logic
A1LC | NOrm

Set Logic for Alarm-1
norm / FLSF
0 : NORM (Normal)
1 : FLSF (Fail-Safe)

SET1

Alarm 2 Logic
A2LC | Norm

Set Logic for Alarm-2
norm / FLSF
0 : NORM (Normal)
1 : FLSF (Fail-Safe)

SET1

[4]Alarm 1 Delay
A1dY | 1

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

SET1

Alarm 2 Delay
A2dY | 1

Alarm Delay is amount of time (in sec), that Relay-2 will wait before getting ON after the alarm condition occurs.
1 to 99 sec

SET1

[5]Auto Cold Junction Compens-ation
AcJc | YES

Select Auto Cold Junction Compensation required for TC input Type
NO / YES
0:NO
1:YES

SET1

[6]Fix Cold Junction Compens-ation
F.cJc | 0

Set Fix cold junction Compensation value.
0 to 60.0 °C

SET1

Function Key
F.KEY | SOAK

Select A/M or Soak time
A-M / SOAK
0:A-M
1:SOK.T

SET1

Password
PASS | 1

Set Device Password0 to 99

SET1

Version
vErS | -

Shows the Version of the Current Firmware

[1] Parameter is only shows if control output type is ON-OFF.
[2] Parameter is only shows if input type is Linear.
[3] Parameter is only shows if output type is not Linear.
[4] Parameter is only shows if output type is Linear.
[5] Parameter is only shows if input type is TC.
[6] Parameter is only shows if input type is TC and A.CJC is NO.

CAL
CAL

SET1

***Ambient**
Amb

Ambient Adjustment

SET1

Calibration Zero
CAL2

Calibration Zero for PV Input

SET1

Calibration Span
CAL5

Calibration Span for PV Input

SET1

Retrans-mission 1 Zero
rt2 1

Calibration Zero for Retransmission Output-1

SET1

Retrans-mission 1 Span
rt5 1

Calibration Span for Retransmission Output-1

SET1

Retrans-mission 2 Zero
rt22

Calibration Zero for Retransmission Output-2

SET1

Retrans-mission 2 Span
rt52

Calibration Span for Retransmission Output-2

*parameter is only shows if input type is TC

Specifications are subject to change without notice due to continuous improvements.
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