96 x 96mm

Features :

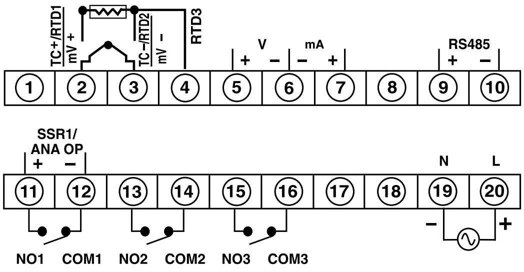
- 4+4 Digits, 7 Segment LED dual display
- Universal input
- ON - OFF/ PID control
- °C/°F selectable
- Heat cool PID
- Ramp soak
- Soft start
- RS485 Communication MODBUS RTU Protocol
- Retransmission analog output

Technical specifications

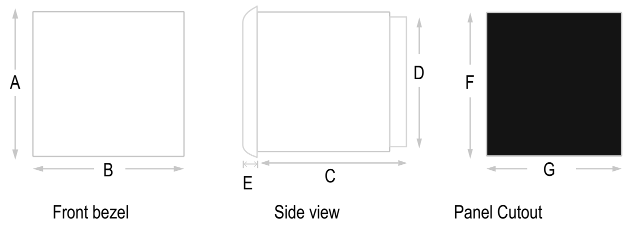
Display	4+4 digits 7 Segment LED dual display
Height of display	Upper display: 14 mm, Lower display: 7 mm
LED indication	1: Main output ; 2, 3: Alarm output ; M: Manual output ; T: Tune
Inputs	Thermocouple (J, K, T, R, S, C, E, B, N, L, U, W, Platinel II), RTD (PT100), Signal inputs (- 5 to 56mV, 0 to 10V, 0 to 20mA)
Resolution	1/ 0.1 for TC/ RTD only (fixed 1° resolution for R & S type TC) Decimal point position selectable: 1/ 0.1/ 0.01/ 0.001 for analog input
Indication accuracy	For TC inputs: 0.25% of F.S. ±1° For R & S type TC inputs: 0.5% of F.S. ±2° (20 min of warm up time for TC inputs) For RTD input: 0.1% of F.S. ±1° For Analog input: ±0.5%, ±1° digit (F.S. = Full scale)
Temperature unit	°C/°F selectable
Input filter (FTC)	1 to 99 sec
Sampling time	200 ms
Control output (Optional)	1
Contact rating (SPST)	5A @ 230 VAC/ 30 VDC, resistive
SSR drive (Voltage pulse)	12 VDC, 20 mA
Current	4 to 20 mA DC (loop impedance: 500Ω max)
Voltage	0 to 10 VDC (load resistance: 10KΩ min)
Auxiliary output (Optional)	2
Contact rating (SPST)	5A @ 230 VAC/ 30 VDC, resistive
SSR drive	12 VDC, 20 mA
Retransmission	
Current	0 / 4 to 20 mA DC (loop impedance: 500Ω max)
Update rate	100 msec
Control action	1) PID Control 2) ON-OFF control
Proportional band (P)	0.0 to 400.0°C
Integral time (I)	0 to 3600 sec
Derivative time (D)	0 to 200 sec
Cycle time	0.1 to 100.0 sec
Hysteresis width	0.1 to 99.9°
Manual reset value	-99.9 to 19.9°
Heat-cool	
Control action	PID
Proportional band-cool	0.0 to 400.0°
Cycle time-cool	0.1 to 100 sec
Dead band	Programmable from set point low limit to set point high limit.

Settings for alarm output	
Modes	Deviation high/ low, Absolute high/ low, Band, Sensor Break, Full scale high, Full scale low
Hysteresis	0.1 to 99.9°
Ramp rate	1 to 9999°/ hr
Soak time	0 to 1440 min
Soft start time	0 to 999 min
Supply voltage	90 to 270 VAC/ DC (50/ 60Hz)
Power consumption	5 VA max @ 230 VAC
Temperature	Operating: 0°C to 50°C (32 to 122°F); Storage: 20°C to 75°C (- 4 to 167°F)
Humidity (non - condensing)	85% RH
Mounting	Panel
Weight	295 gms

Terminal connections


TC+/RTD1
mV +
TC−/RTD2
mV −
RTD3
V
+
−
mA
−
+
RS485
+
−
1
2
3
4
5
6
7
8
9
10
SSR1/
ANA OP
+
−
N
L
11
12
13
14
15
16
17
18
19
20
−
+
NO1
COM1
NO2
COM2
NO3
COM3

Dimensions (All are in mm)


A
B
E
C
D
F
G
Front bezel
Side view
Panel Cutout

DIM	A	B	C	D	E	F	G
PID330	96	96	74.5	90	10	92	92

Ordering information

PID330-2-0-04	4-20 mA	RELAY (5A)	RELAY (5A)	YES	90 to 270 VAC/ DC	- - -
PID330-0-0-01	RELAY (5A)	RELAY (5A)	RELAY (5A)	- - -	90 to 270 VAC/ DC	- - -