



96 x 96mm

**Features :**

- 4 + 4 Digits, 7 Segment LED Dual Display
- LED Status Indicator : Relay ON, Tune, Alarm, Manual
- Universal Input
- ON-OFF / PID Control
- °C / °F Selectable
- Heat Cool PID
- Ramp Soak
- Soft Start

Certifications :

**Display Specifications**

Display	4+4 Digits, 7 Segment LED Dual Display Height of Upper Display : 14mm Height of Lower Display : 7mm
LED Indications	1 : Main output, 2, 3 : Alarm output, M : Manual output, T : Tune.

**Input Specifications**

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 input) 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

**Output Specifications**

<b>Control Output</b> (Optional)	1
Relay Contact (SPST)	5A @ 230V AC / 30V DC, resistive
SSR Drive (Voltage Pulse)	12V DC, 20mA
Current	4 to 20mA DC (loop impedance : 500Ω max)
<b>Auxiliary Output</b> (Optional)	2
Relay Contact (SPST)	5A @ 230V AC / 30V DC, resistive
SSR Drive	12V DC, 20mA
<b>Retransmission</b>	
Current	4 to 20mA DC (loop impedance : 500Ω max)
Update Rate	100 msec

**Functional Specifications**

Control Action	1) PID 2) ON - OFF
Proportional Band (P)	0.0 to 400.0°
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 99.9°
Heat Cool PID	
Control Action	PID
Cycle Time	0.1 to 100 sec
Proportional Gain	0.0 to 400.0°
Deadband	Programmable from setpoint low limit to setpoint high limit
<b>Alarms</b>	
Modes	Deviation high / low, Absolute high / low, Band, sensor Break, Full scale high, Full scale low
Hysteresis	0.1 to 99.9°
Ramp Soak	
Ramp Rate	1 to 9999° / hr
Soak Time	0 to 1440 min
Soft Start Time	0 to 999 min

**Auxiliary Supply Specifications**

Supply Voltage	90 to 270V AC / DC (50 / 60Hz)
Power Consumption	5 VA max @230V AC

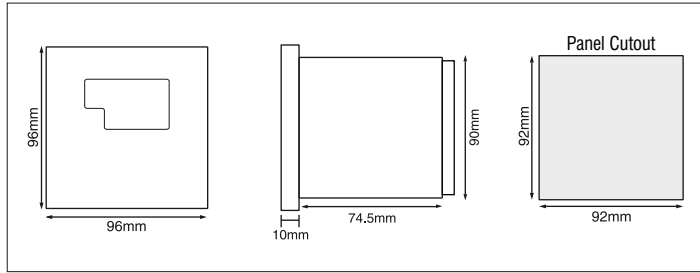
**Environmental Specifications**

Temperature	Operating : 0 to 50°C (32 to 122°F) Storage : -20 to 75°C (-4 to 167°F)
Humidity (non-condensing)	85% RH

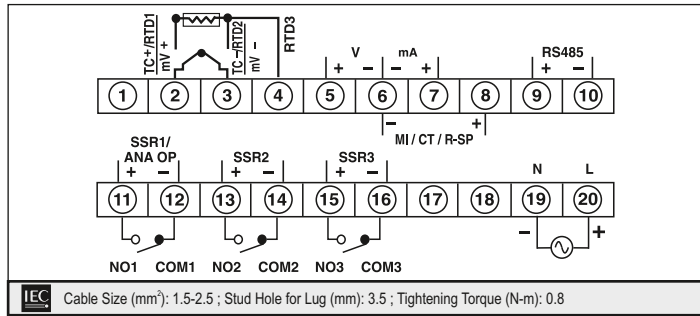
**Mechanical Specifications**

Mounting	Panel
Weight	295 gms

Dimensions



Terminal Connections



Ordering Information

PRODUCT CODE	OUTPUT 1	OUTPUT 2	OUTPUT 3	COMMUNICATION	SUPPLY VOLTAGE	CERTIFICATION
PID330-2-0-04	4 - 20mA	RELAY	RELAY	YES	90-270V AC / DC	CE
PID330-0-0-01	RELAY	RELAY	RELAY	—	90-270V AC / DC	CE

Mounting Accessories (Supplied with units)

Clamp side with screw assembled

Mounting Accessories (Supplied with units)

For TC544 : 48 X 48 Collar clamp ACL4802  
 For TC244/TC344 : Clamp side with screw assembled

Input Sensor Ranges (For TC / RTD Inputs)

Sensor type	Resolution	Ranges	
		1	0.1
PT100	°C	-150 to 850	-150 to 850
	°F	-238 to 1562	-199 to 999
J	°C	-199 to 750	-199 to 750
	°F	-328 to 1382	-199 to 999
K	°C	-199 to 1350	-199 to 999
	°F	-328 to 2462	-199 to 999
T	°C	-199 to 400	-199 to 400
	°F	-328 to 750	-199 to 750
R & S	°C	0 to 1750	N/A
	°F	32 to 3182	N/A