



96 x 48mm

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 : 10mm 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)
Sampling time	200 ms
Input Filter (FTC)	1 to 99 sec
Temperature Unit	°C / °F Selectable

Output Specifications

Control Output (Optional)	1
Relay Contact (SPST)	5A @ 230V AC / 30V DC, resistive
SSR Drive (Voltage Pulse)	12V DC, 20mA
Current	0 / 4 to 20mA DC (loop impedance : 500Ω max)
Voltage	0 to 10V DC (load resistance : 10KΩ min)
Auxiliary Output (Optional)	
Relay Contact (SPST)	5A @ 230V AC / 30V DC, resistive
SSR Drive	12V DC, 20mA

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
Alarms	
Modes	Deviation high / low, Absolute high / low, Band, sensor Break
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

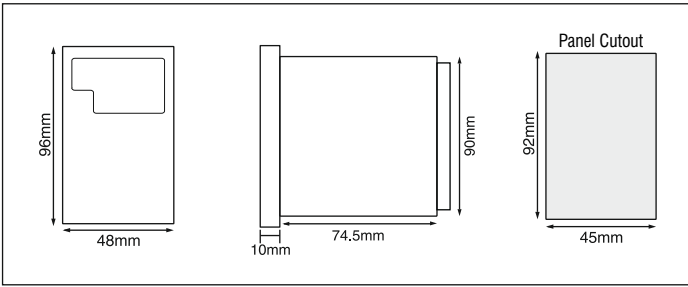
Environmental Specifications

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

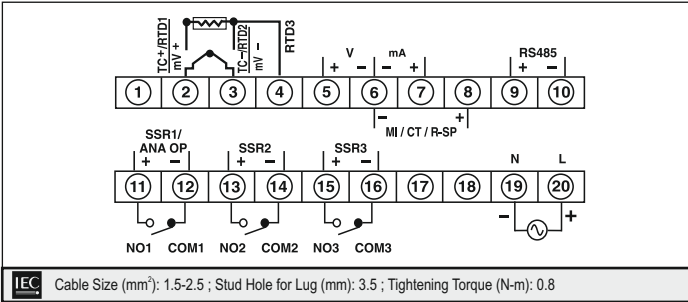
Mechanical Specifications

Mounting	Panel
Weight	250 gms

Dimensions



Terminal Connections



Ordering Information

PRODUCT CODE	OUTPUT 1	OUTPUT 2	OUTPUT 3	COMMUNICATION	SUPPLY VOLTAGE	CERTIFICATION
PID110-2-0-04	4 - 20mA	RELAY	RELAY	YES	90-270V AC / DC	CE
PID110-0-0-01	RELAY	RELAY	RELAY	—	90-270V AC / DC	CE

Mounting Accessories (Supplied with units)

Clamp side with screw assembled