PID528

Basic PID Temperature Controller



Features:

- Dual Display, 4 Digit, 7 Segment LED
- TC / RTD Input
- ON-OFF, PID, PID Autotune
- Two Setpoints
- Control Output : Relay / SSR / Current
- Alarm Output : Relay / SSR

Size: 1/16 DIN, 48mm x 48mm

Certifications: CE cULus

Technical Specifications

Display

Digits	4 digit 7 Segment LED, Dual display Height of Upper Display : 0.3785" Height of Lower Display : 0.2720"
LED Indications	Relay ON, Tune

Input Specifications

Inputs	Thermocouple (J,K,T,R,S) / RTD (Pt100)
Sampling time	250 ms
Input Filter (FTC)	0.2 to 10.0 sec
Resolution	0.1/1°
Temperature Unit	°C
Indication Accuracy	For J, K & T inputs: 0.25% of F.S. ±1° For R & S inputs: 0.5% of F.S. ±2° (20 min of warm up time for TC inputs) For RTD inputs: 0.1% of F.S. ±1° (F.S. = Full Scale)

Output Specifications

Control Output :	
Relay	5A @ 230V AC / 30V DC, resistive
SSR Drive (Optional)	18V DC, 20mA
Auxiliary Output :	
Relay	5A @ 230V AC / 30V DC, resistive

Functional Specifications:

Control Action	PID / 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°
FOR AUXILIARY OUTPUT	
Modes	Deviation, Absolute
Hysteresis	0.1 to 99.9°

Supply Voltage

Supply Voltage	85 to 270V AC/DC (50 / 60Hz)
Power Consumption	5VA max @230V AC

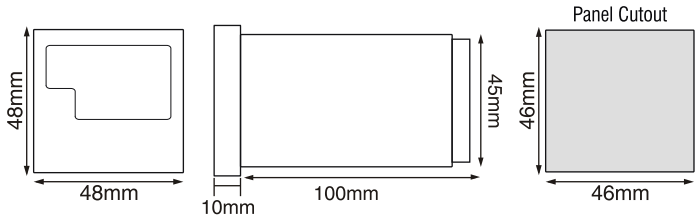
Environmental Specifications

Temperature	Operating: 0 to 50°C (32 to 122°F) Storage: -20 to 75°C (-4 to 167°F)
Humidity (non-condensing)	95% RH
Weight	160 gms
Protection Level	IP65 for faceplate

Compliance

IEC/EN 61326 (EMI/EMC)
IEC/EN 61010 Revision3 2010 Edition (Safety)
UL 61010 Revision3 2010 Edition (Safety)

Dimensions



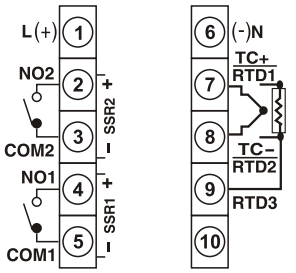
Mounting Accessories (Supplied with units)

48 X 48 Collar clamp	ACL4802

Input Ranges (For TC/RTD input)

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

Terminal Connections



cULus **Cable Size (AWG):** 16-13 ; **Stud Hole for Lug (inch):** 0.137 ; **Tightening Torque (Lb-inch):** 7

IEC **Cable Size (mm^2):** 1.5-2.5 ; **Stud Hole for Lug (mm):** 3.5 ; **Tightening Torque (N-m):** 0.8

Ordering Information

This product is CE certified. Also available with UL marking against order. Please order as per the requirement.

Part No.	Output 1	Output 2	Supply Voltage
PID528-1	Relay	Relay	85 - 270V AC/DC
PID528-2	18V DC SSR	Relay	85 - 270V AC/DC

UL approved part numbers

Part No.	Output 1	Output 2	Supply Voltage	Certification
PID528-1-CU	Relay	Relay	85 - 270V AC/DC	CE cULus

Accessories (Optional)

Standard SELEC accessories that can be used with this product.

Adapter plate

1) AP7248 : Plastic adapter plate, used to mount 1/16 DIN (cutout size 48 x 48) Instrument into existing (72 x 72) cutout size.
2) AP9648 : Plastic adapter plate, used to mount 1/16 DIN (cutout size 48 x 48) Instrument into existing (96 x 96) cutout size.
3) AP4896-4848-G-C : Plastic adapter plate, used to mount 1/16 DIN (cutout size 48 x 48) Instrument into existing (48 x 96) cutout size.