



48 x 48mm

Features :

- 4 + 4 Digits, 7 Segment LED Dual display
- TC / RTD Input
- ON - OFF / PID Control auto tune
- Dual set points
- Control Output : Relay
- Auxiliary Output : Relay

Certifications :

Display specifications

Display	4 + 4 Digits, 7 Segment LED Dual display Height of Upper display : 10mm Height of Lower display : 7mm
LED indications	Relay ON, Tune

Input specifications

Inputs	Thermocouple (J, K, T, R, S) / RTD (PT100)
Resolution	0.1 / 1° for TC / RTD inputs (fixed 1° for R & S type TC input)
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 input : 0.1% of F.S. ±1°(F.S. = Full Scale)
Temperature unit	°C
Input filter (FTC)	0.2 to 10.0 sec
Sampling time	250 ms

Output specifications

Control output (Optional)	
Relay contact (SPST)	5A @ 230V AC / 30V DC
Auxiliary output	
Relay	5A resistive @ 230V AC / 30V DC

Functional specifications

Control action	Auto tune 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	1 to 100 sec
Hysteresis width	0.1 to 99.9°
Manual reset value	-99 to 99 For 1° resolution -99.9° to 99.9 for 0.1° resolution
For auxiliary output	
Modes	Deviation, absolute
Hysteresis	0.1 to 99.9°C

Auxiliary supply specifications

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

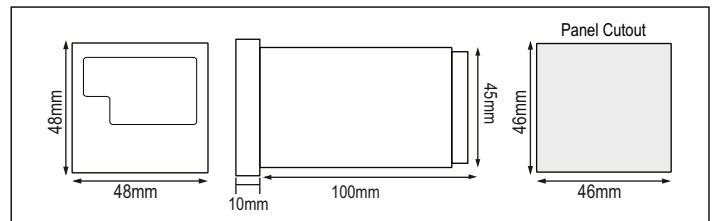
Environmental specifications

Temperature	Operating : 0 to 50°C (32 to 122°F) Storage : -20 to 75°C (-4 to 167°F)
Humidity (non-condensing)	95% RH

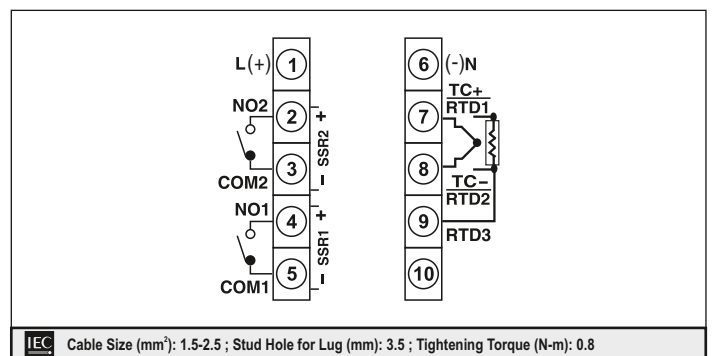
Mechanical specifications

Mounting	Panel
Weight	200 gms

Dimensions



Terminal connections



Cable Size (mm²): 1.5-2.5 ; Stud Hole for Lug (mm): 3.5 ; Tightening Torque (N-m): 0.8

Compliance

Applicable EMI / EMC Standards		
Product standard : IEC 61326-1		
Category		Standards compliance
ESD Immunity	IEC 61000-4-2	Level III
Surge Immunity	IEC 61000-4-5	+/- 2 kV common mode, +/- 1 kV differential mode
Radiated susceptibility	IEC 61000-4-3	Level III, 80 to 1000MHz Level II, 1.4GHz to 2GHz Level I, 2GHz to 2.7GHz
Conducted susceptibility	IEC 61000-4-6	Level II
Voltage dips and Interruptions	IEC 61000-4-11	Dips : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C) Interruptions : 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria C)
Conducted emission	CISPR-11	
Radiated emission	CISPR-11	
Electrical fast transient	IEC 61000-4-4	Level III

Ordering information

Product code	Output 1	Output 2	Supply voltage	Certification
PID528-1	RELAY	RELAY	90 - 270V AC / DC	--
PID528-1 V2-CE	RELAY	RELAY	90 - 270V AC / DC	CE

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.

Mounting accessories (Supplied with units)

48 X 48 Collar clamp	ACL4802
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Input sensor ranges (For TC / RTD Inputs)

Sensor type	Resolution	Ranges	
		1	0.1
PT100	°C	-150 to 850	-99 to 850
	°F	-238 to 1562	-199 to 999
J	°C	-199 to 750	-99 to 750
	°F	-328 to 1382	-199 to 999
K	°C	-199 to 1350	-99 to 999
	°F	-328 to 2462	-199 to 999
T	°C	-199 to 400	-99 to 400
	°F	-328 to 750	-199 to 750
R & S	°C	-99 to 1750	N/A
	°F	32 to 3182	N/A