

48 x 48mm

Features:

- 3 Digits, 7 Segment LED single display
- TC / RTD inputs
- ON OFF / PID control
- Auto tuning / Self tuning
- · Single set point
- °C / °F selectable
- Field selectable control output : Relay or SSR

Certifications : **(€**

Display specifications

Display 3 Digits, 7 Segment LED single display
Height of display 10mm

LED indications R : Control output ON

Input specifications

Thermocouple (J, K, T, R, S) / RTD (PT100) Inputs Resolution Fixed 1° Indication accuracy For J, K & T inputs: 0.25% of F.S. ±1°C For R & S inputs: 0.5% of F.S. ±2°C (20 min of warm up time for TC inputs) For RTD inputs: 0.1% of F.S. ±1°C (F.S. = Full scale) °C / °F selectable Temperature unit 0.2 to 10.0sec Input filter (FTC) Sampling time 250 ms

Output specifications

Relay contact (SPDT)	10A @ 230V AC / 30V DC, Resistive
SSR drive (Voltage pulse)	12V DC, 30mA

Functional specifications

Control action

1) PID control with auto or self tuning
2) ON - OFF control

Proportional band (P)

1 to 400°C, 1.0 to 752.0 °F

Integral time (I)

0.0 to 99.9 min

Derivative time (D)

0 to 999 sec

Cycle time

0.1 to 99.9 sec

Hysteresis width

0.1 to 99.9 °C

Manual reset value

1) PID control with auto or self tuning
2) ON - OFF

1 to 400°C, 1.0 to 752.0 °F

Auxiliary supply specifications

Supply voltage	90 to 270V AC / DC (50 / 60Hz)
Power consumption	6 VA max @ 230V AC

Environmental specifications

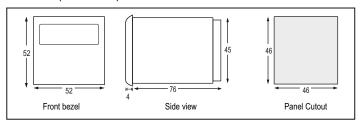
Temperature Operating : 0 to 50°C (32 to 122°F)
Storage : 20 to 75°C (-4 to 167°F)

Humidity (non - condensing) 95% RH

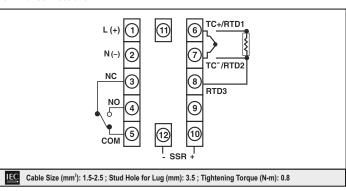
Mechanical specifications

Mounting	Panel
Weight	111 gms

Dimensions (All are in mm)



Terminal connections



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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 cycles50Hz / 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		

Input sensor ranges (For TC / RTD inputs)

	Resolution	Ranges
Sensor type		1
PT100	°C	-150 to 850
P1100	°F	-199 to 999
J	°C	-199 to 750
J	°F	-199 to 999
К	°C	-199 to 999
	°F	-199 to 999
Т	°C	-199 to 400
'	°F	-199 to 750
R & S	°C	0 to 999
	°F	32 to 999

Ordering information

Product code	Outp	out 1	Supply voltage	Certification
TC513BX	RELAY	SSR	90 - 270V AC / DC	
TC513BX-CE	RELAY	SSR	90 - 270V AC / DC	C€

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)

101 1000	
ΔCL 4802	
	ACI 4802