

48 x 48mm

## Features:

- Dual display, 4 digits, 7 segment LED
- LED status indicator
- 3 Front panel control buttons
- TC / RTD inputs
- PID / ON OFF control
- Auto tunning / Self tunning
- °C / °F Selectable
- Control output: Relay or SSR Drive

#### **Display specifications**

4 digits (White) + 4 digits (Green) Display Display height :-White display: 15.3 mm Green display: 8 mm 7 segment digital display **LED Indications** R: Control output ON T : Auto tune

# Input specifications

Thermocouple (J, K, T, R, S) / RTD (Pt100) Input signal 250 msec Sampling time Input filter (FTC) 0.2 to 10.0 Sec 0.1 / 1 for TC / RTD input Resolution (fixed 1 for R & S type TC input) Temperature unit °C / °F selectable Indication accuracy For TC inputes: 0.25% of F.S ±1°C For R & S inputs: 0.5% of F.S ±2°C (30 min of warm up time for TC input) For RTD inputs: 0.1% of F.S ±1°C

## **Output specifications**

Relay contact (SPDT)	10A resistive @ 250V AC/30V DC
SSR Drive output (voltage pulse)	12V DC, 30 mA

#### **Functional specifications**

Control method

1) PID control with auto or self tuning 2) ON - OFF control Proportional band (P) 1.0 to 400.0°C, 1.0 to 752.0°F 0 to 9999 sec Integral time (I) Derivative time (D) 0 to 9999 sec Cycle time 0.1 to 99.9 sec Hysteresis width 0.1 to 99.9°C Dwell time 0 to 9999 min Manual reset value -19.9 to 19.9  $^{\circ}$ C/  $^{\circ}$ F

## **Auxiliary supply specifications**

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

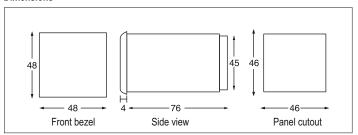
#### **Environmental specifications**

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

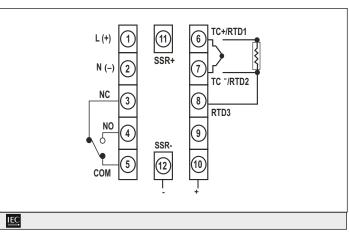
#### **Mechanical specifications**

Mounting	Panel
Weight	113 gms

#### **Dimensions**



#### **Terminal connections**



# **Ordering information**

Product Code	Out	out 1	Supply Voltage	Certification
TC538CX	Relay	SSR	90 to 270V AC / DC	

Accessories ( Optional )
Standard SELEC accessories that can be used with this product.

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)

# Mounting accessories (supplied with units)

For 48 X 48 collar clamp	ACL4802	
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## Input sensor ranges

	Resolution	Ranges		
Sensor type		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	
К	°C	-199 to 1350	-199 to 999	
	°F	-328 to 2462	-199 to 999	
Т	°C	-199 to 400	-199 to 400	
	°F	-328 to 750	-199 to 750	
R&S	°C	0 to 999	NA	
	°F	32 to 3182	NA	