



48 x 48mm

Features :

- 3+3 Digits, 7 Segment LED Dual Display
- TC / RTD Inputs
- ON - OFF / PID Control
- Single Set Point
- °C / °F Selectable
- Field selectable Control Output (Relay or SSR)

Certifications:

Display Specifications

Display	3+3 Digits, 7 Segment LED Dual Display Height of Upper Display : 10mm Height of Lower Display : 7mm
LED Indications	Control output ON

Input Specifications

Inputs	Thermocouple (J, K, T, R, S) / RTD (PT100)
Resolution	Fixed 1°
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)
Temperature Unit	°C / °F selectable
Input Filter (FTC)	0.2 to 10.0 sec
Sampling time	250 ms

Output Specifications

Relay Contact (SPDT)	10A @ 250V AC / 30V DC, resistive
SSR Drive (Voltage Pulse)	12V DC, 50mA

Functional Specifications

Control Action	1) PID Control with auto tuning 2) ON - OFF Control
Proportional Band (P)	1 to 400°
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°
Manual Reset Value	-19.9 to 19.9°

Auxiliary Supply Specifications

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

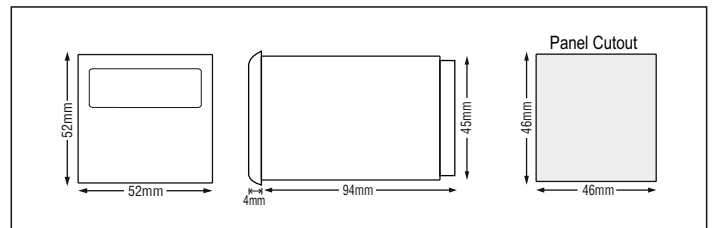
Environmental Specifications

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

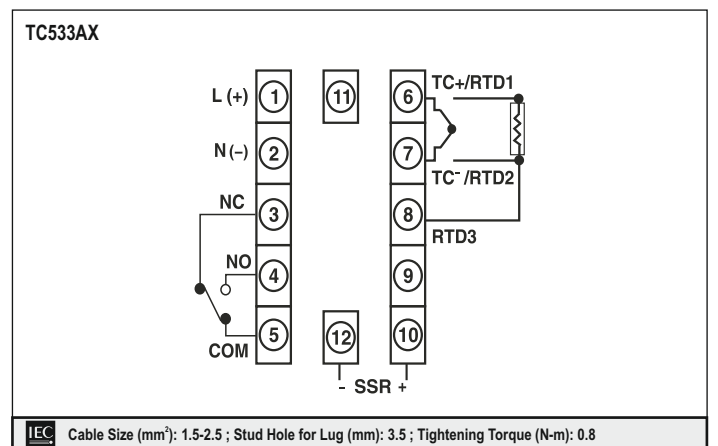
Mechanical Specifications

Mounting	Panel
Weight	129 gms

Dimensions



Terminal Connections



IEC 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		SUPPLY VOLTAGE	CERTIFICATION
TC533AX	RELAY	SSR	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
PT100	°C	-150 to 850
	°F	-199 to 999
J	°C	-199 to 750
	°F	-199 to 999
K	°C	-199 to 999
	°F	-199 to 999
T	°C	-199 to 400
	°F	-199 to 750
R & S	°C	0 to 999
	°F	32 to 999