



### Features:

- Single Display, 3 digit, 7 segment LED
- TC / RTD Inputs
- PID, ON/OFF Control
- Single Setpoint
- °C / °F Selectable
- Field selectable Control Output (Relay or SSR)
- Easy to use

Size: 48mm x 48mm, 72mm x 72mm, 96mm x 96mm

Certifications:

### Technical Specifications

#### Display

Digits	3 digit 7 Segment LED, Single display TC513 : Height of Display 0.3785" TC203 : Height of Display 0.5385" TC303 : Height of Display 0.5510"
LED Indications	Control output ON

#### 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	Fixed 1°
Temperature Unit	°C / °F selectable
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

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

#### Functional Specifications:

Control Action	1) PID 2) ON-OFF
Proportional Band (P)	1 to 400°
Integral Time (I)	0.0 to 99.9 min
Derivative Time (D)	0 to 200 sec
Cycle Time	0.1 to 99.9 sec
Hysteresis Width	0.1 to 99.9°
Manual Reset Value	-19.9 to 19.9°

#### Supply Voltage

Supply Voltage	85 to 270V AC/DC (50 / 60Hz) Optional 24V AC/DC, ±10% (only for TC513)
Power Consumption	5VA max @230V AC

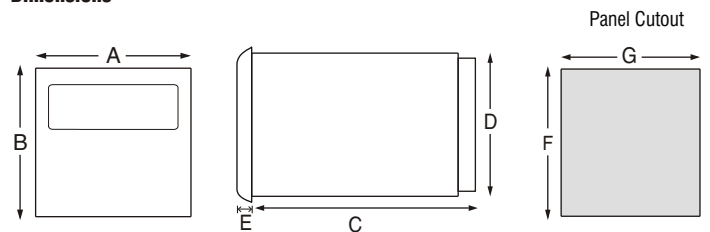
#### Environmental Specifications

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	TC513: 129gms / TC203: 180gms / TC303: 240gms
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



MODELS	DIM	A	B	C	D	E	F	G
TC513AX		52	52	94	45	4	46	46
TC203AX		72	72	83.7	67	4.5	69	69
TC303AX		96	96	73	90.5	5	92	92
All dimensions are in mm								

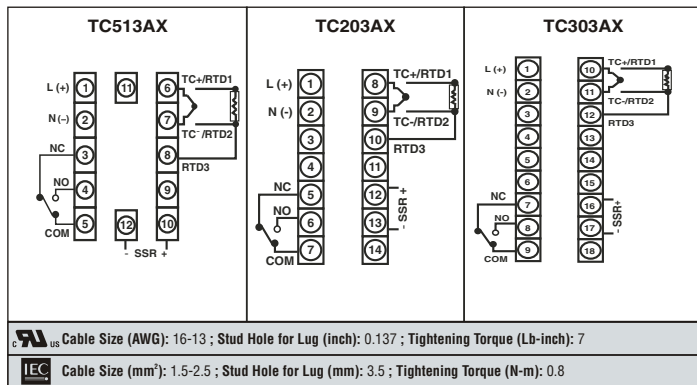
#### Mounting Accessories (Supplied with units)

For TC513 : 48 X 48 Collar clamp ACL4802
For TC203/TC303 : Clamp side with screw assembled

### Input Sensor Ranges

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

### Terminal Connections



### Ordering Information

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

Part No.	Output		Supply Voltage
	Relay	12V DC SSR	
TC513AX	Relay	12V DC SSR	85 - 270V AC/DC
TC513AX-24V	Relay	12V DC SSR	24V AC/DC
TC203AX	Relay	12V DC SSR	85 - 270V AC/DC
TC303AX	Relay	12V DC SSR	85 - 270V AC/DC

### UL approved part numbers

Part No.	Output		Supply Voltage	Certification
	Relay	12V DC SSR		
TC513AX-CU	Relay	12V DC SSR	85 - 270V AC/DC	CE, UL
TC513AX-24V-CU	Relay	12V DC SSR	24V AC/DC	CE, UL
TC203AX-CU	Relay	12V DC SSR	85 - 270V AC/DC	CE, UL
TC303AX-CU	Relay	12V DC SSR	85 - 270V AC/DC	CE, UL

### 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) AP9672 : Plastic adapter plate, used to mount 72 x 72mm size instrument into existing (96 x 96) cutout size.
- 4) 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.