

## Dual Display, 2 Output Temperature Controllers 7 Segment LED Display

### FEATURES

- Dual Display, 4 digits, 7 segment LED
- TC/RTD Inputs
- PID, ON-OFF Control
- Dual Setpoint
- °C / °F
- Field selectable Control Output (Relay or SSR)
- Additional Aux. Output
- Easy to use



**TC544A**  
48 x 48 mm

**TC244AX**  
72 x 72 mm

**TC344AX**  
96 x 96mm

### CAT. NO.

<b>Display</b>	
Display Type	7 Segment LED Display
Digits	2 rows of 4 digits
Resolution	1/0.1 Degree for TC/RTD / Fixed 1 Degree for R and S TC
<b>Supply Specification</b>	
	85-270V AC/DC (50/60Hz)
<b>Input Specification</b>	
Input Measurement	Thermocouple (J,K,T,R,S) / RTD (Pt100)
Sampling Time	0.25 sec
Input Filter (FTC)	0.2 to 10.0 sec
<b>Output Specification</b>	
Main Output	Selectable- SPDT- 5A @250V AC / 30V DC, resistive OR SSR Drive - 12V DC, 50mA
Auxiliary Output	SPDT- 5A @250V AC / 30V DC, resistive (TC544A: SPST Relay)
<b>Functional Specification</b>	
Control Action	1) PID Control with Auto Tuning 2) ON-OFF Control
PID	Proportional Band (P): 0-400° Integral Time (I): 0-9999 sec Derivative Time (D): 0-9999 sec
Alarm Mode	Deviation / Absolute
Hysteresis	0.1-99.9°
Temperature Unit	°C / °F
Cycle Time	0.1 to 99.9 sec.
Manual Reset Value	-19.9° to 19.9°
Power Consumption	5VA max @230V AC
Set Points	2
<b>Accuracy</b>	
J, K, T INPUTS*	0.25% of F.S. ±1°
R, S INPUTS*	0.5% of F.S. ±2°
RTD INPUT	0.1% of F.S. ±1°
<b>Environmental Specification</b>	
Operating Temperature	0 to 50°C (32 to 122°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)
Humidity (Non-Condensing)	95% Relative Humidity
Weight	See dimensions on next page

### Ordering Information

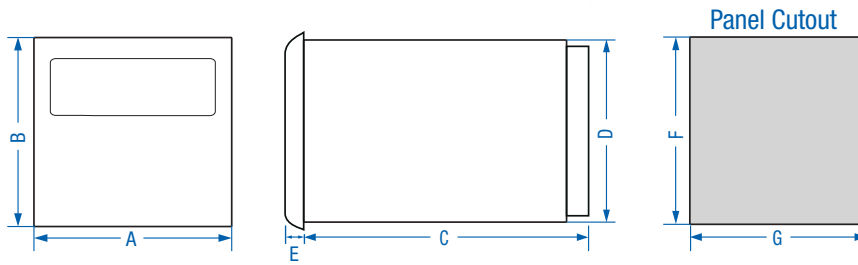
Part No.	Control Output	Auxiliary Output	Supply Voltage	CE	RoHS	UL US
TC544A-CU	10A Relay or 12V DC SSR	5A Relay	85 - 270V AC/DC	●	●	●
TC244AX-CU	10A Relay or 12V DC SSR	5A Relay	85 - 270V AC/DC	●	●	●
TC344AX-CU	10A Relay or 12V DC SSR	5A Relay	85 - 270V AC/DC	●	●	●
TC544A-1-CU	10A Relay or 12V DC SSR	SSR	85 - 270V AC/DC	●	●	●

### Mounting Accessories (supplied with units)

For TC544 : 48 X 48 Collar clamp ACL4802

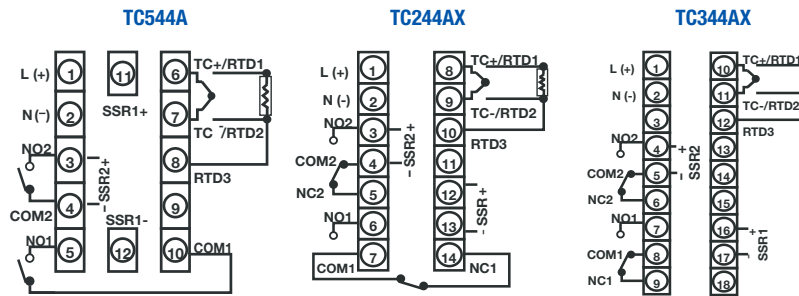
For TC244/TC344 : Clamp side with screw assembled

**DIMENSIONS**



	A	B	C	D	E	F	G	Weight
TC544AX	52	52	94	45	4	46	46	142 grams (.31 lbs)
TC244AX	72	72	83.7	67	4.5	69	69	200 grams (.44 lbs)
TC344AX	96	96	73	90.5	5	92	92	252 grams (.33 lbs)

**TERMINAL CONNECTIONS**



**Input Sensor Ranges**

Sensor Type	Resolution	Ranges	
		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
K	°C	-199 to 1350	-199 to 999
	°F	-328 to 2462	-199 to 999
T	°C	-199 to 400	-199 to 400
	°F	-328 to 750	-199 to 750
R and S	°C	0 to 1750	NA
	°F	32 to 3182	NA

**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 x72mm 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.