

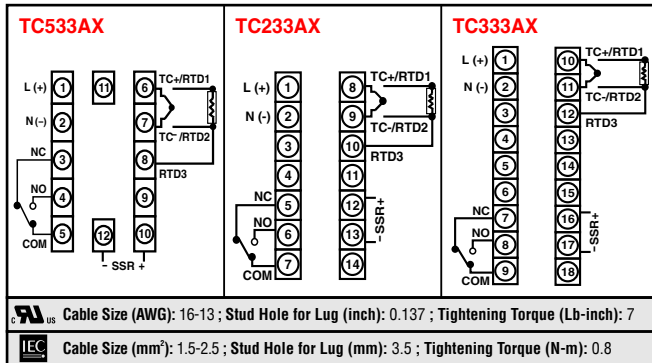
# SELEC TEMPERATURE CONTROLLERS TC533 TEMPERATURE CONTROLLERS



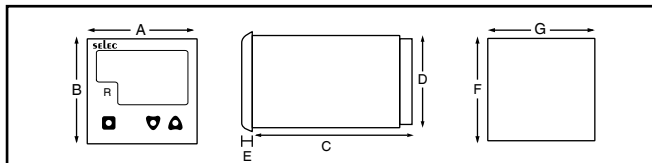
## ORDERING INFORMATION

Part No.	Supply Voltage		Control Output	
	85 - 270V AC/DC	24V AC/DC	Relay	SSR (12V DC)
TC533AX	■		■	■
TC533AX-24V		■	■	■
TC233AX	■		■	■
TC233AX-24V		■	■	■
TC333AX	■		■	■
TC333AX-24V		■	■	■

## TERMINAL CONNECTIONS



## DIMENSIONS



MODELS	DIM	A	B	C	D	E	F	G
TC533AX		52	52	94	45	4	46	46
TC233AX		72	72	83.7	67	4.5	69	69
TC333AX		96	96	73	90.5	5	92	92

All dimensions are in mm (to convert to inches, multiply by 0.03937)

## INPUT RANGES

Input (for RTD)	Ranges
Pt100	°C -150 to 850 °F -199 to 999

Input (for TC)	Ranges
J	°C -199 to 750 °F -199 to 999
	°C -199 to 999 °F -199 to 999
K	°C -199 to 400 °F -199 to 750
	°C -199 to 750 °F -199 to 999
R & S	°C 0 to 999 °F 32 to 999

## FEATURES

- High Performance
- Dual Display, 3 digit, 7 segment LED
- LED Status Indicator: Relay ON
- 3 Front Panel Control buttons
- TC/RTD Inputs
- PID, ON/OFF Control
- Single Setpoint
- °C / °F Selectable
- Control Output : Relay or SSR Drive
- Easy to use

## TECHNICAL SPECIFICATIONS

### 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)

### 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°

### OUTPUT SPECIFICATIONS

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

### GENERAL SPECIFICATIONS

Supply Voltage	85 to 270V AC/DC (50 / 60Hz) OPTIONAL - 24V AC/DC, ±20%
Power Consumption	5VA max @230V AC
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	129gms/180gms/240gms
Protection Level	IP65 for faceplate