

SELEC TEMPERATURE CONTROLLERS TC513 TEMPERATURE CONTROLLERS

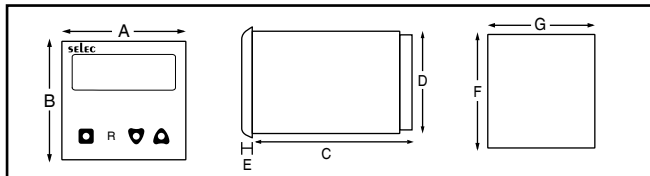


CE C RU US
PENDING PENDING

ORDERING INFORMATION

Part No.	Supply Voltage		Control Output	
	85 - 270V AC/DC	24V AC/DC	Relay	SSR (12V DC)
TC513A	■		■	
TC513A-1	■			■
TC513AX	■		■	■
TC513AX-24		■	■	■
TC221A	■		■	
TC221A-1	■			■
TC203AX	■		■	■
TC203AX-24V		■	■	■
TC303A	■		■	
TC303A-1	■			■
TC303AX	■		■	■
TC303AX-24V		■	■	■

DIMENSIONS



MODELS	DIM	A	B	C	D	E	F	G
TC513A/TC513AX		52	52	94	45	4	46	46
TC221A/TC203AX		72	72	83.7	67	4.5	69	69
TC303A/TC303AX		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
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

FEATURES

- High Performance
- Single 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°

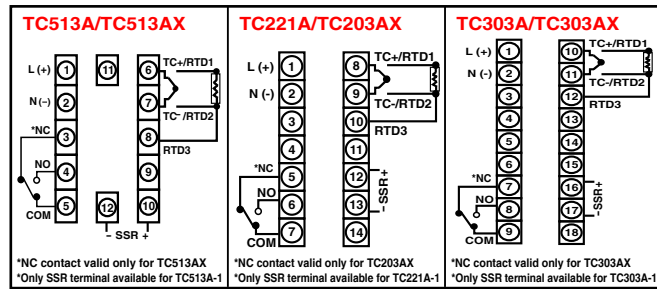
OUTPUT SPECIFICATIONS

Contact Rating	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

TERMINAL CONNECTIONS



UL US	Cable Size (AWG): 16-13 ; Stud Hole for Lug (inch): 0.137 ; Tightening Torque (Lb-inch): 7
IEC	Cable Size (mm²): 1.5-2.5 ; Stud Hole for Lug (mm): 3.5 ; Tightening Torque (N-m): 0.8