

TEMPERATURE CONTROLLERS

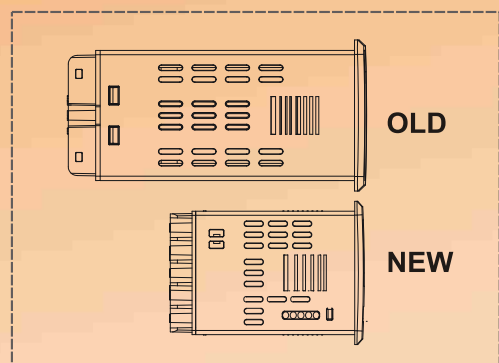


48x48mm

Sensor type: J/K/T/R/S/PT100
Function: PID/ON-OFF

Enhanced Features

- Self tune
- Low ambient drift
- High current relay
- Short depth



96x96mm



Enhanced Features

- Easy use
- Low cost
- Sensor type: J/K
- Function: ON-OFF

Other Temperature Controllers:



4+4 digits
Economic Controllers



3 digits
Economic Controllers



Advanced PID



Profile Controller



Process Indicator



Cooling Controller

Other Product Ranges:

METERS | PLC's | PROTECTION RELAYS | TIMERS | COUNTERS | CT'S

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Specifications overleaf...

Technical Specification



Model	TC513BX	TC533BX	TC544B	TC538BX	DTC331
Functions	3 digits, Single display, Single set point	3 digits, Dual display, Single set point	4 digits, Dual display, Dual set point	4 digits, Dual display, Single set point	3 digits, Single display, Single set point
Display	7 segment LED, Single display	7 segment LED, Dual display	7 segment LED, Dual display	7 segment LED, Dual display	7 segment LED, Single display
Digits	3 digits	3 digits	4 digits	4 digits	3 digits
LED/ DP Indications	Relay ON, Tune	Relay ON, Tune	Relay ON, Tune, Soak Time	Relay ON, Tune	Relay ON
Input Specifications					
Types	Thermocouple (J,K,T,R,S) / RTD (PT100)	Thermocouple (J,K,T,R,S) / RTD (PT100)	Thermocouple (J,K,T,R,S) / RTD (PT100)	Thermocouple (J,K,T,R,S) / RTD (PT100)	Thermocouple (J,K)
Sampling time	250 ms	250 ms	250 ms	250 ms	250 ms
Resolution	Fixed 1° resolution	Fixed 1° resolution	0.1/1° for TC/RTD inputs (fixed 1° for R & S type TC input)	0.1/1° for TC/RTD inputs (fixed 1° for R & S type TC input)	Fixed 1° resolution
Temperature Unit	°C / °F selectable	°C / °F selectable	°C / °F selectable	°C / °F selectable	°C / °F selectable
Indication Accuracy	For J, K & T TC 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 input: 0.1% of F.S. ±1°	For J, K & T TC 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 input: 0.1% of F.S. ±1°	For J, K & T TC 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 input: 0.1% of F.S. ±1°	For J, K & T TC 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 input: 0.1% of F.S. ±1°	0.25% of F.S. ±1° (20 min of warm up time for TC inputs)
Control Output					
Relay	10A@250V AC or 30V DC, resistive	10A@250V AC or 30V DC, resistive	5A@250V AC or 30V DC, resistive (SPST)	10A@250V AC or 30V DC, resistive	10A@250V AC or 30V DC, resistive (SPST)
SSR	12V DC, 30mA	12V DC, 30mA	12V DC, 30mA	12V DC, 30mA	—
Auxiliary Output	—	—	Max. 1	—	—
Relay	—	—	5A@230V AC or 30V DC, resistive	—	—
Functional Specifications					
Control Method	PID or ON-OFF	PID or ON-OFF	PID or ON-OFF	PID or ON-OFF	ON-OFF
Tuning Method	Auto or Self	Auto or Self	Auto or Self	Auto or Self	—
Hysteresis	0.1 to 99.9°	0.1 to 99.9°	0.1 to 99.9°	0.1 to 99.9°	0.1 to 99.9°
Proportional Band	1 to 400°	1 to 400°	1.0 to 400.0°	1.0 to 400.0°	—
Integral Time	0.0 to 99.9 min	0.0 to 99.9 min	0.0 to 9999 sec	0.0 to 9999 sec	—
Derivative Time	0 to 999 sec	0 to 999 sec	0 to 9999 sec	0 to 9999 sec	—
Cycle Time	0.1 to 99.9 sec	0.1 to 99.9 sec	0.1 to 99.9 sec	0.1 to 99.9 sec	—
Manual Reset Value	-19.9 to 19.9°	-19.9 to 19.9°	-19.9 to 19.9°	-19.9 to 19.9°	—
Dwell (Soak) timer	—	—	OFF, 1 to 9999 min	—	—
Heat - Cool PID	—	—	Yes	—	—
Alarm	—	—	Yes	—	—
Alarm Modes	—	—	Deviation, Absolute	—	—
Hysteresis	—	—	0.1 to 99.9°	—	—
Supply Voltage (AC: 50 or 60 Hz)	85 to 270V AC/DC	85 to 270V AC/DC	85 to 270V AC/DC	85 to 270V AC/DC	85 to 270V AC/DC
Temperature	Operating: 0 to 50° Storage: -20 to 75°	Operating: 0 to 50° Storage: -20 to 75°	Operating: 0 to 50° Storage: -20 to 75°	Operating: 0 to 50° Storage: -20 to 75°	Operating: 0 to 50° Storage: -20 to 75°
Humidity (non-condensing)	95% RH	95% RH	95% RH	95% RH	95% RH
Weight	111 gms	110 gms	116 gms	113 gms	130 gms
Size	48x48x76mm	48x48x76mm	48x48x76mm	48x48x76mm	96x96x39mm

All sizes mentioned are in mm unless specified otherwise. Specifications are subject to change without prior notice.



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