

TB4000 HIGH-CAPACITY BULB & CAPILLARY TEMPERATURE CONTROLLER

Features & Benefits

- ▶ High amperage load up to 50 amps per zone
- ▶ Available with temperature cut off
- ▶ Suitable for outdoor use
- ▶ Simple dial setpoint
- ▶ Multiple configurations
- ▶ NEMA 4X enclosure
- ▶ Easy-view clear plastic door

Specifications

Voltage: 120, 240, 277, or 480 VAC with 3-phase option

Maximum Amp Load: Up to 50 amps per zone

Temperature Control Range: 0°F to 150°F, 50°F to 300°F, or 150°F to 650°F

Temperature Display Unit: Dial setpoint °F

Accuracy: ± 5°F (± 3°C)

Hysteresis: 2% of full scale

Sensor: 304 stainless-steel bulb and capillary, 10 ft (3 m) long

Environmental Exposure:

Operating range: -40°F to 160°F (-40°C to 71°C)

Enclosure Material: Plastic or stainless steel

Enclosure Dimensions: 5.6 in x 5.2 in x 3.4 in (143 mm x 132 mm x 86 mm)

Ordering Information

Part Number Matrix

TB 4 4 1 2 - 150

Product Series

Type of Enclosure

4- (Plastic), 5- (Metal)

Control Options

1- (Single Zone)

2- (Single with Low or High Temperature Alarm)

3- (Single with High Limit Cutout)

4- (Dual Zone)

Contactors

0- (No contactor / 15 amps - Single Phase)

1- (One contactor / 50 amps - Single or Three-Phase)

2- (Two contactors / 50 amps each - Single or Three-Phase)

Voltage

1- (120), 2- (240), 3- (277), 4- (480)

Temperature Range

150- (0 to 150 °F [-17 to 66 °C])

300- (50 to 300 °F [10 to 149 °C])

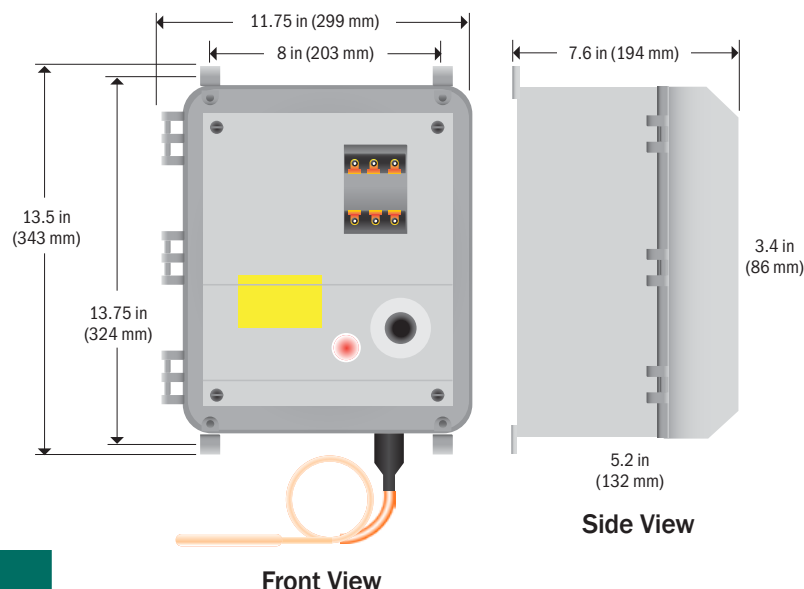
650- (150 to 650 °F [66 to 343 °C])

Bulb Dimensions

Temperature Range	Diameter in (mm)	Length in (mm)
0°F to 150°F (-18°C to 66°C)	0.38 (10)	6.88 (175)
50°F to 300°F (10°C to 149°C)	0.38 (10)	4.38 (111)
150°F to 650°F (66°C to 343°C)	0.38 (10)	3.63 (92)



Easy-to-set dial controller within NEMA 4X enclosure



Front View

Side View