CONTROLLERS

ANALOG TEMPERATURE CONTROLLERS

TB4000 High-Capacity Bulb and Capillary Temperature Controller

(TB4000 Series)

ur Heating Specialist since 1949

- High amperage load up to 50 amps per zone
- Suitable for outdoor use
- Bulb and capillary

Simple dial setpoint

- Multiple configurations
- NEMA 4X enclosure
- Clear viewable plastic door

Specifications:

Voltage: 120, 240, 277, or 480 VAC with 3-Phase options

Max. 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 Units: Dial Setpoint °F

Accuracy: +/- 5°F(+/- 3°C)

Hysteresis/Differential: 2% of full scale

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

Environmental Exposures: 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)

TB 4 4 1 2 - 150

Ordering Information:

Part Number Matrix 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)
- $2\mathchar`-$ (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 to 150°F	0.38 (10)	6.88 (175)
50 to 300° F	0.38 (10)	4.38 (111)
150 to 650°F	0.38 (10)	3.63 (92)

