

TB110 Hazardous-Area Bulb and Capillary Temperature Controller

Product Highlights

- ✓ Suitable for hazardous-area environments
- ✓ Temperature control on heat tracing, freeze protection, and process maintenance applications
- ✓ Bulb and capillary
- ✓ Numerous temperature range choices to fit your application



Class I Division 1 & 2 Group B, C, D
Class II Division 2 Group E, F, G
Class III



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Set-point dial protected within a NEMA 7 & 9 enclosure

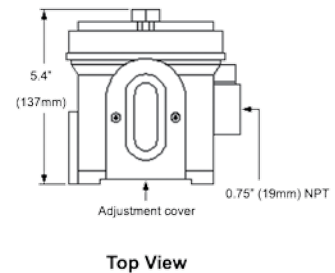
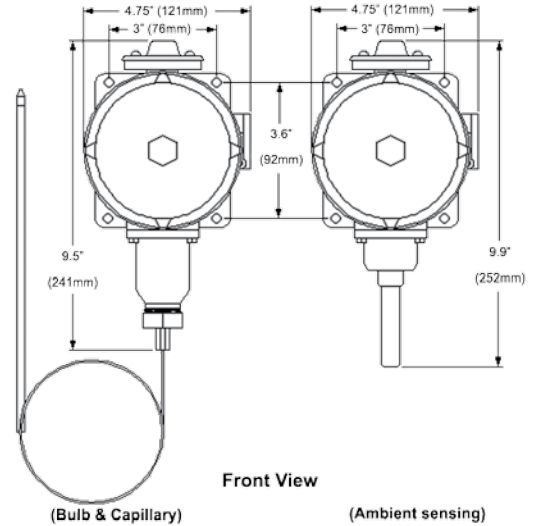


Specifications:

- Rated 22 amps up to 480VAC
- 304 Stainless Steel Bulb and Capillary, 10 feet (3m) long (remote sensing only)
- Single pole double throw (SPDT) contacts
- Enclosure rated NEMA 7 & 9, for hazardous areas
- Differential 6°F (3°C)
- Average accuracy of ±5°F (3°C)
- Maximum controller exposure temperatures -40 to 160°F (-40 to 71°C)
- Repeatability 1% of range

Bulb Dimensions

Part Number	Diameter		Length	
	inches	mm	inches	mm
TB110N-140	9/16	14.3	2 11/16	68.3
TB111N-325	1/4	6.4	10 1/4	200.4
TB113N-650	1/4	6.4	12 1/2	317.5
TB112N-325	1/4	6.4	10 1/4	200.4
TB114N-650	1/4	6.4	12 1/2	317.5



Ordering Information:

Single set-point control

Part number	Volts	Amps	Range
TB111N-325	Up to 480	22	25 to 325°F (-4 to 163°C)
TB113N-650	Up to 480	22	300 to 650°F (148 to 343°C)

Dual set-point control

Part number	Volts	Amps	Range
TB112N-325	Up to 480	22	25 to 325°F (-4 to 163°C)
TB114N-650	Up to 480	22	300 to 650°F (148 to 343°C)

Ambient sensing

Part number	Volts	Amps	Range
TB110N-140	Up to 480	22	15 to 140°F (-9 to 60°C)

The Dual controller has two independent set-point dials and two independent SPDT contacts allowing two different temperature set-points.

Accessories:

Part number	Description
TB110N-BW	1/2" NPT brass bulb well
TB110N-BWS	1/2" NPT stainless steel bulb well

CONTROLLERS