



Ambient sensing

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

Single set point control

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

Dual set point control

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

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

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

Accessories

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

NOTE: The TB110N bulb wells allow the ambient sensing controller to be directly mounted to and control a tank.

Specifications:

- Rated 22 Amps up to 480VAC
- 304 Stainless Steel Bulb and Capillary, 10 feet (3M) long (remote sensing only)
- Single Pole Double Throw contacts
- Enclosure rated NEMA 7 & 9, for hazardous areas
- Maximum controller exposure temperatures -40°F (-40°C) to 160°F (71°C)
- Repeatability 1% of range

Approvals:

- Hazardous Locations
Class 1, Division 1 & 2 Group B, C, & D
Class 2, Division 2 Group E, F & G
Class 3
- Class 1, Division 1 & 2 Group B, C, & D
Class 2, Division 2 Group E, F & G
Class 3

Applications:

BriskHeat® Hazardous-Area Bulb and Capillary Temperature Controllers (TB110N Series) are oil filled bulb and capillary temperature controllers used for controlling individual circuits in environments requiring explosion enclosures. These controllers are designed to maintain the required temperature in heat tracing, freeze protection and process maintenance applications.