TB110 HAZARDOUS-AREA BULB & CAPILLARY TEMPERATURE CONTROLLER

Features & Benefits

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

Specifications

Voltage: Up to 480 VAC

Maximum Amp Load: 22 amps

Temperature Display Unit: Dial setpoint °F and °C

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

Power Connections: Single pole double throw (SPDT) contacts

Average Accuracy: $\pm 5^{\circ}F(3^{\circ}C)$

Hysteresis: 6°F(3°C)

Repeatability: 1% of range

Enclosure Rating: NEMA 7 & 9, for hazardous areas

Environmental Exposure Temperature Range: -40°F to 160°F (-40°C to 71°C)





II 2 G Ex d IIC T6 Gb II 2 D Ex to IIIC T85°C Db IP66 Tamb = -40°C to 75°C

Ordering Information

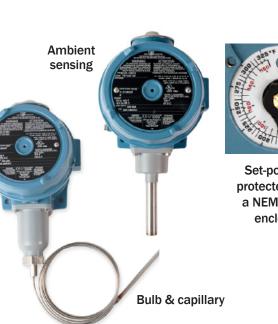
Bulb and Capillary

Single	Duel est usint		Bulb Dimensions	
set-point Part No.	Dual set-point Part No.	Set-point range	Diameter in (mm)	Length in (mm)
TB111N-325	TB112N-325	25°F-325°F (-4°C-163°C)	0.25 (6)	10.25 (200)
TB113N-650	TB114N-650	300°F-650°F (149°C-343°C)	0.25 (6)	12.50 (318)

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

Ambient Sensing

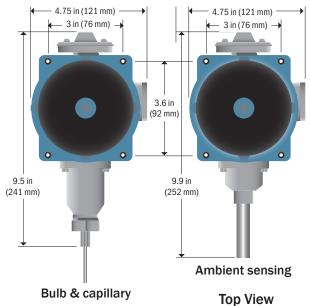
	Caturaint	Bulb Dimensions		
Part No.	Set-point	Diameter	Length	
	range	in (mm)	in (mm)	
TB110N-140	15°F-140°F	0.56	2.69	
	(-9°C-60°C)	(14)	(68)	





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

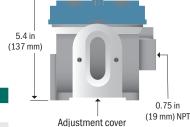
Front View



Bulb & capillary

Description





TB110N-BWS 0.5 in NPT stainless steel bulb well

0.5 in NPT brass bulb well

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Accessories Part No.

TB110N-BW