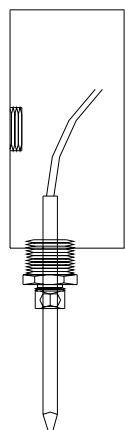


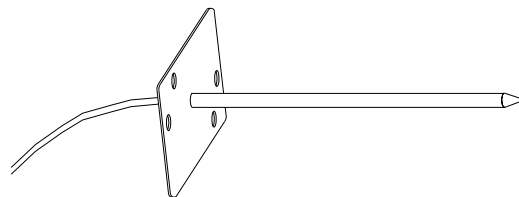


Equipment Sensors

Temperature Sensors

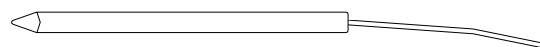


**Outside Air Sensor
TS-3200BT**

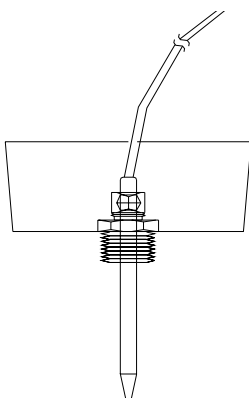


Duct Sensors

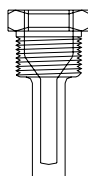
TS-2000BT TS-2008BT TS-2010BT TS-2020BT



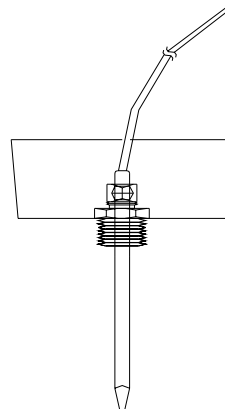
**Pencil Sensor
TS-3000BT**



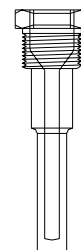
**2.5" Immersion Sensor
TS-2100BT**



**2.5" Pipe Well
TS-3100**



**6" Immersion Sensor
TS-2115BT**



**6" Pipe Well
TS-3115**

Each Alerton® BACtalk® temperature sensor utilizes the same industrial-grade sensing element. The element is a precalibrated, interchangeable thermistor that changes resistance relative to temperature and is held at the tip of the sensor tube with thermally conductive epoxy.

The TS-2000BT, TS-2008BT and TS-2010BT are duct sensors with 5 in., 8 in. and 10 in. probes, respectively. These have 5 ft. wire leads. The TS-2020BT is a discharge duct sensor with a 5 in. probe and 6 ft. plenum-rated wire leads.

The TS-2100BT and TS-2115BT are 2.5 in. and 6 in. stainless steel immersion sensors with 5 ft. wire leads. The TS-3100BT is 2.5 in. brass, and the TS-3115BT is a 6 in. stainless steel pipe used with their corresponding immersion sensors.

The TS-3200BT is an outside air sensor with 5 ft. wire leads mounted in a bell box.

The TS-3000BT pencil sensor is a 4.25 in. long stainless steel tube with a diameter of 0.25 in. and 6 in. wire leads. The pencil sensor is mounted in various standard hardware for duct, well, and outside air applications.

Product Number

See diagrams above

Sensors**SPECIFICATIONS****Thermistor**

Type	Uni-curve Type II.
Resistance	10K Ω at 77°F (22°C). See table below.
Interchangeability	0.36°F (0.2°C).
Time Constant*	10 seconds (to 66% of new temperature).
Stability*	0.036°F (0.02°C) drift per year.
Accuracy*	±0.36°F (0.2°C) over range of 32–158°F (0–70°C).

**Based on normal operating conditions.*

Wiring

18–22 AWG. Shielded.

Environment

32°–158°F (0°–70°C).

Thermistor Resistance at Selected Temperatures

Temperature	Resistance	Temperature	Resistance
35°F (1.7°C)	29,997 Ohms	90°F (32.2°C)	6,667 Ohms
40 (4.4)	26,100	95 (35.0)	6,530
45 (7.2)	22,799	100 (37.8)	5,827
50 (10.0)	19,900	105 (40.6)	5,207
55 (12.8)	17,437	120 (48.9)	3,757
60 (15.6)	15,313	125 (51.7)	3,380
65 (18.3)	13,477	130 (54.4)	3,047
70 (21.1)	11,883	135 (57.2)	2,720
75 (23.9)	10,500	140 (60.0)	2,488
80 (26.7)	9,297	145 (62.8)	2,250
85 (29.4)	8,250	150 (65.6)	2,040

Specifications subject to change without notice.

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