

BACtalk® MICROTOUCH™ Wall Sensor

Features and highlights

- **Reliable**
An interchangeable, industrial-grade thermistor provides consistent accuracy and interfaces with Alerton® field equipment.
- **Flexible**
Use the Microset™ Service Tool at the BACtalk® Microtouch™ to adjust setpoint ranges, after-hours override time, VAV box CFM setpoints, heat pump economizer setpoints, and more.
- **Energy-efficient**
Maintenance and energy costs are reduced with operator-established after-hours override time and temperature bias setpoints.
- **Attractive**
Discreet and stylish, the BACtalk Microtouch is the ideal companion to any building's interior decor.



The BACtalk® Microtouch™ is a fully BACnet-compliant wall sensor that complements any building's interior decor. Beneath the stylish housing is an accurate thermistor temperature sensing element, an override push-button switch, adjustable setpoint bias, and service jack for servicing flexibility.

Accuracy is assured with the BACtalk Microtouch's interchangeable, industrial-grade thermistor that connects directly to Alerton® field equipment.

After-hours, the occupant pushes the cover to activate the override timer in the VisualLogic® controller (VLC) controlling the zone HVAC equipment. Energy costs are reduced when the facility operator establishes minimum occupied time periods and uses the after-hours override time outside these occupied time periods.

The BACtalk Microtouch's setpoint adjustment lever allows the occupant to bias the zone setpoint. The bias amount—typically ± 2 deg. F—and center setpoint are set at the operator terminal or with the Microset™ Service Tool. The BACtalk Microtouch's lever can be disabled by setting a 0 bias or physically removing the lever.

The Microset Service Tool easily connects to the Microtouch's service jack with a 5 ft. cable. The Microset Service Tool allows service personnel to configure the VLCs that are directly connected to the BACtalk Microtouch. Setpoint adjustment range, after-hours override time, VAV box CFM setpoints, heat pump economizer setpoints and more can be readily configured

Together with Alerton's complete BACtalk line of powerful Windows-based operator terminal software and programmable VisualLogic controllers, the BACtalk Microtouch wall sensor offers a total BACnet solution.

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Technical data

- **Thermistor**

Type Uni-curve Type II.

Resistance 10K ohm at 77 deg. F (25 deg. C). See table below.

Time Constant 10 seconds (to 66% of new temperature).

Accuracy ±0.36 deg. F (0.2 deg. C) over range of 32–158 deg. F (0–70 deg. C).

Stability 0.036 deg. F (0.02 deg. C) drift per year.

Interchangeability 0.36 deg. F (0.2 deg. C).

- **Environmental** -20–180 deg. F (-29–82 deg. C).

- **Wiring** 18–22 AWG, shielded. Low capacitance wire recommended.

- **Max. Dimensions**

Unit 3.0" (77mm)H X 2.0" (51mm)W X 0.75" (20mm)D.

Wallplate 4.5" (115mm)H X 2.75" (70mm)W X 0.2" (6mm)D.

Thermistor Resistance at Selected Temperatures

Temperature	Resistance
35 deg. F (1.7 deg. C)	29,997 Ohms
40 (4.4)	26,100
45 (7.2)	22,766
50 (10.0)	19,900
55 (12.8)	17,437
60 (15.6)	15,313
65 (18.3)	13,477
70 (21.1)	11,883
75 (23.9)	10,500
80 (26.7)	9,297
85 (29.4)	8,250

Temperature	Resistance
90 deg. F (32.2 deg. C)	7,333 Ohms
95 (35.0)	6,530
100 (37.8)	5,827
105 (40.6)	5,207
120 (48.9)	3,757
125 (51.7)	3,380
130 (54.4)	3,047
135 (57.2)	2,720
140 (60.0)	2,488
145 (62.8)	2,250
150 (65.6)	2,040

Ordering information

Item number	Description
TS-1050-BT	BACnet-compliant wall sensor

Specifications subject to change without notice