



The Microtouch™ Wall Sensor is designed to complement any building's decor. The stylish housing contains a sensitive thermistor temperature sensing element, an override push-button switch, setpoint bias and a service jack for use with the Microset™ Service Tool.

The Microtouch typically connects directly to Alerton® Terminal Unit Controllers (TUXs™) for temperature sensing, occupant setpoint bias, and occupant override control. The bias range of the adjustment lever (typically $\pm 2^{\circ}\text{F}$) and center setpoint are set at the IBEX™ terminal or with a Microset Service Tool. The lever can be disabled by setting a bias of 0 or by physically removing it.

The switch is activated by pushing the cover, which sends a signal to the control system to activate the zone HVAC equipment for after-hours occupancy. The after-hours override time is also set at the IBEX™ terminal or with a Microset Service Tool.

The sensing element is an interchangeable, industrial-grade thermistor that changes resistance relative to temperature. The Microtouch thermistor exhibits little drift, virtually eliminating the re-calibration that conventional thermostats require. Maintenance costs are reduced, while system operators are assured of accurate, consistent temperature indication.

The Microset Service Tool, which easily connects to the Microtouch service jack with a 5 ft. cable, allows service personnel to configure and reprogram the TUX connected to the Microtouch. Technicians can query and adjust system parameters in the field, accessing setpoint range, after-hours override time, VAV box cfm setpoints, heat pump economizer setpoints and more.

Product Numbers

TS-1050 (Microtouch Wall Sensor)
AC-1050 (Microtouch Wallplate)

Optional Accessories
MS-1001 (Microset Service Tool)

Specifications

Microtouch™

Thermistor Resistance at Selected Temperatures

TEMP.	RESISTANCE
35°F (1.7°C)	8999Ω
40 (4.4)	7830
45 (7.2)	6840
50 (10.0)	5971
55 (12.8)	5231
60 (15.6)	4594
65 (18.3)	4043
70 (21.1)	3565
75 (23.9)	3150
80 (26.7)	2789
85 (29.4)	2475
90 (32.2)	2000
95 (35.0)	1959
100 (37.8)	1748
105 (40.6)	1562
120 (48.9)	1127
125 (51.7)	1014
130 (54.4)	914
135 (57.2)	825
140 (60.0)	746
145 (62.8)	675
150 (65.6)	612

Resistance	3000Ω at 77°F (25°C). See table.
Operating and Storage Range	0–158°F (-18–70°C)
Interchangeability	0.36°F (0.2°C)
Time Constant	10 seconds (to 66% of new temperature)
Wiring	18–24 AWG, 15Ω max.
Max. Dimensions (Unit)	3"(77mm)H X 2"(51mm)W X 0.75"(20mm)D
Max. Dimensions (Wallplate)	4.5"(115mm)H X 2.75"(70mm)W X 0.2" (6mm)D
Color	White. Others available on special order.

Specifications subject to change without notice.

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TECHNOLOGIES INC

Visit our website at www.alerton.com or e-mail us at info@alerton.com

©Alerton Technologies, Inc. • 6670 185th Ave. NE, Redmond, WA 98052 USA • Phone (425) 869-8400 • Fax (425) 869-8445