

BACtalk® MICROSET II™ Wall Unit

Features and highlights

- **Versatile**
Occupant can view room and outside air temperatures, select fan speed and change room temperature setpoints. Data and functions are programmable.
- **Energy Efficient**
Occupants can select after-hours operation in 30-minute increments or turn zone equipment ON and OFF.
- **Flexible**
A programmable field service mode allows maintenance personnel to monitor and adjust control parameters in the VLC from the Microset's™ field service mode.
- **Attractive**
Modern styling enhances any interior, and functional design makes operation intuitive.



The Alerton® BACtalk® Microset II™ is an intelligent and attractive wall unit that updates the functions of the typical thermostat. The Microset II connects to Alerton's BACtalk VisualLogic® controllers (VLCs) and serves as a tenant control center and field service tool. Sleek styling, a backlit liquid crystal display (LCD) and simple push-button controls make operation intuitive. The LCD simultaneously displays the setpoint, room and outside air temperatures, and fan status.

An occupant can use the Microset II to view room and outside air temperatures and change setpoints within established limits. The Microset II is programmable, allowing site developers the flexibility to display information and allow occupant control according to the varied needs of each application.

Typically, the unit displays room and outside air temperatures. But site developers can program the unit to display additional information: Time-of-day, room humidity and outdoor humidity, for example. The LCD shows temperatures in Fahrenheit or Celsius.

The Microset II's push-button operations can be customized so that an occupant can use them to turn zone HVAC equipment ON or OFF. This is useful for areas that are occupied sporadically, such as conference rooms. Push-buttons also support fan-speed control, and the LCD shows current fan-speed. An occupant can select after-hours operation in 30-minute increments up to established limits.

The Microset II communicates with programmable VLCs, which directly connect to zone mechanical equipment. The VLC stores programmed control parameters and temperature settings, executing DDC to control equipment and maintain optimum environmental conditions.

The Microset II's programmable field service mode (activated with a special code) enables maintenance personnel to view and adjust control parameters in the field. This reduces maintenance and service time while providing facility personnel with increased flexibility.

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Technical data

- **Thermistor** The thermistor is integrated with the device. The unit is a microprocessor with a built-in analog to digital converter for temperature and humidity which is designed to communicate directly to VLCs.
- **Type** Uni-curve Type II.
 - Resistance** 10K ohm at 77 deg. F (25 deg. C).
 - Interchangeability** 0.36 deg. F (0.2 deg. C).
 - Time Constant*** 10 seconds (to 66% of new temperature).
 - Stability*** 0.036 deg. F (0.02 deg. C) drift per year.
 - Accuracy*** ±0.36 deg. F (0.2 deg. C) over range of 32–158 deg. F (0–70 deg. C).

*Based on normal operating conditions.
- **Power** 24 VAC @ 25mA for backlit display. Orange lead terminates to 24 VAC terminal on VLC. Sensor draws 5VDC @ 10mA from VLC.
- **VLC Connection** 18–22 AWG, shielded, 3-conductor. 250 ft. max. Black wire to VLC IN, white to VLC input COM, orange is optional 24 VAC for backlit display. Low capacitance wire recommended.
- **Max. Dimensions** 4.6" (117mm)H X 3.0" (76mm)L X 0.7" (18mm)D.
- **Environmental** Residential, commercial and light-industrial environments. 32–158 deg. F (0–70 deg. C). 0–90% RH, non-condensing.
- **Optional Humidity Sensor**
 - Operating Temperature Range: -40–185 deg. F (-40–85 deg. C).
 - Repeatability: ± 0.5% RH.
 - Accuracy: ± 5% RH up to 60%RH, ± 8% RH from 60% to 90% RH (typical humidity).
- **Ratings**
 - Listed Underwriters Laboratory as an accessory for VAVs and VLCs.
 - EMC Directive (European CE Mark)
 - FCC Part 15.107 & 109, Class B

Ordering information

Item number	Description
MS-2000-BT	Microset II wall unit
MS-2000H-BT	Microset II wall unit (with optional humidity sensor)

Specifications subject to change without notice