

Rev. 04/21/14

Features & Options

- Power and Communication on Just Two Wires
- Available with Temp Sensing, Temp Setpoint, Occupant Override, an Optional LCD Display and optional %RH Sensing
- Up to 500 Foot Wire Runs on New or Existing Wires

Many existing buildings have two wire sensors but do not have the other sensor features that customers expect in today's sophisticated systems. The BAPI-Com Sensor uses those existing two wires and offers the owner a full function temperature sensor with temperature setpoint, occupant override, an optional easy-to-read display and optional %RH sensing.

The sensors are powered and communicate over two wires to a Communication Module for use by a BAS system. The outputs are configurable as a thermistor, voltage, resistance or dry contact override output. The sensor is powered by the Communication Module which itself is supplied by any 24VDC/VAC source.



**BAPI-Com Units
(includes Room Sensor and
Communication Module)**

Specifications

ROOM SENSOR

Power: 18VDC, from the Comm. Output Module

Wiring: 2 wires, Up to 500ft (new or existing)

AWG gauge22 to 14AWG
Twist per foot5 per ft preferred
Shielding.....Preferred (not required)
Wire spec typical ...Belden 9841

Temperature Sensor: Thermistor, $\pm 0.36^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$)

RH/Temp Sensor Construction:

Communicating Integrated Circuit
Humidity: Capacitive Polymer, $\pm 2\%$ RH
(10% to 90%) @25°C, Fully Compensated
Temperature: Semiconductor Band Gap,
 $\pm 0.3^{\circ}\text{C}$ @ 25°C

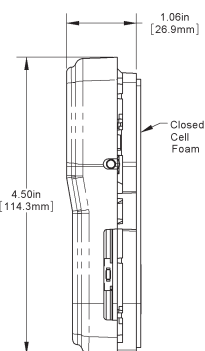
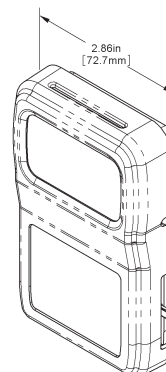
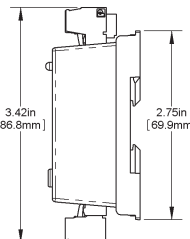
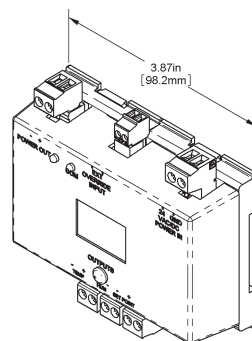
Pole Rate: 400 ms

Options:

SetpointSlide or Pushbutton
Test & Balance.....Available with Display
Humidity.....2% Accuracy, Capacitive
Override.....Pushbutton
Display.....LCD

Ambient:

32 to 122°F (0 to 50°C),
0 to 95%RH, non-condensing



COMMUNICATION OUTPUT MODULE

Power in: 24VDC/AC, 30mA

Terminations:

Comm. & PWR 2 wires to the sensor
Power in..... 2 wires, 12-28 AWG
Output..... 2 wires per output, 12-28 AWG
Override Input..... 2 wires, 16-30 AWG

Outputs:..... Three Maximum
Volts..... 0-5 or 0-10VDC, 10kΩ min
Resistance..... 400Ω to 20KΩ span
Thermistor 10K-2 or 10K-3

Input (DI): Ext. Override Dry Contact,
Closed = Occupied

Mounting: 3 EZ mount methods
35mm DIN Rail ... Quick tab release
2.75" Snaptrack 4" length
Screw Mount..... Four tabs w/0.125" holes

Material:..... ABS Plastic, UL94V-0, RoHS

Ordering Information/Part Numbers

UNITS WITH °F INDICATION

ALC/BS4MCOM-F-G-L6-WMW-81-P-M00-102-CG

BAPI-Com System with Display, °F Indication, 10K-2 Thermistor Temp Sensor, Temp Setpoint with Display Range of 45 to 96°F and Output Range of 4.75 to 24.75 KΩ, Cool/Warm Setpoint Legend, %RH Measurement with 0 to 5 Volt Output, Override in Parallel with the Setpoint, Common Ground Configuration and Warm White Logo Plate

ALC/BS4MCOM-F-G-L6-WMW-81-P-102-CG

BAPI-Com System with Display, °F Indication, 10K-2 Thermistor Temp Sensor, Temp Setpoint with Display Range of 45 to 96°F and Output Range of 4.75 to 24.75 KΩ, Cool/Warm Setpoint Legend, Override in Parallel with the Setpoint, Common Ground Configuration and Warm White Logo Plate

ALC/BS4MCOM-F-G-L6-WMW-81-Z-102-CG

BAPI-Com System with Display, °F Indication, 10K-2 Thermistor Temp Sensor, Temp Setpoint with Display Range of 45 to 96°F and Output Range of 4.75 to 24.75 KΩ, Cool/Warm Setpoint Legend, Common Ground Configuration and Warm White Logo Plate

ALC/BS4MCOM-F-WMW-Z-102-CG

BAPI-Com System with Display, °F Indication, 10K-2 Thermistor Temp Sensor, Common Ground Configuration and Warm White Logo Plate

UNITS WITH °C INDICATION

ALC/BS4MCOM-C-G-L6-WMW-81-P-M00-102-CG

BAPI-Com System with Display, °C Indication, 10K-2 Thermistor Temp Sensor, Temp Setpoint with Display Range of 7 to 35°C and Output Range of 4.75 to 24.75 KΩ, Cool/Warm Setpoint Legend, %RH Measurement with 0 to 5 Volt Output, Override in Parallel with the Setpoint, Common Ground Configuration and Warm White Logo Plate

ALC/BS4MCOM-C-G-L6-WMW-81-P-102-CG

BAPI-Com System with Display, °C Indication, 10K-2 Thermistor Temp Sensor, Temp Setpoint with Display Range of 7 to 35°C and Output Range of 4.75 to 24.75 KΩ, Cool/Warm Setpoint Legend, Override in Parallel with the Setpoint, Common Ground Configuration and Warm White Logo Plate

ALC/BS4MCOM-C-G-L6-WMW-81-Z-102-CG

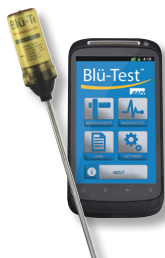
BAPI-Com System with Display, °C Indication, 10K-2 Thermistor Temp Sensor, Temp Setpoint with Display Range of 7 to 35°C and Output Range of 4.75 to 24.75 KΩ, Cool/Warm Setpoint Legend, Common Ground Configuration and Warm White Logo Plate

ALC/BS4MCOM-C-WMW-Z-102-CG

BAPI-Com System with Display, °C Indication, 10K-2 Thermistor Temp Sensor, Common Ground Configuration and Warm White Logo Plate

Associated Products

Blü-Test Bluetooth Wireless Temp & Humidity Testing Probe



Commissioning just got easier with the Blü-Test. There's no need to carry an extra meter because the probe communicates directly to your Bluetooth-enabled Smart Phone or Tablet. The free App even lets you log the data.

See the Wireless section.

Trim Ring for the BAPI-Stat 4

If you are using back boxes with the BAPI-Stat 4, the trim ring covers any wall imperfections between the back box and the wall.

See the Accessories section for more info.

