



Features & Options

- Power and Communication on Just Two Wires
- Available with Temperature Setpoint and Optional Override, Display and %RH Sensing
- Thermistor, Voltage, Resistance or Dry Contact Outputs
- Up to 500 Foot Wire Runs — Perfect for Existing Wires

Many existing buildings have two wire sensors that lack the features people expect in today's sophisticated systems. The BAPI-Com uses those existing two wires and offers the owner a full function sensor with temperature setpoint, occupant override, an optional easy-to-read display and optional %RH sensing.

This retrofit sensor can update old systems to a new look without pulling new wire or disrupting the occupants while saving on labor.

The sensors are powered and communicate over two wires to a Communication Output 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 Output Module which itself is supplied by any 24VDC/VAC source.



BAPI-Com Room Sensors & Communication Output Module

Ordering Information

The BAPI-Com is a very powerful unit with many options. Please call your BAPI representative for ordering. We will provide a quote and keep it on record for future orders

Specifications

ROOM SENSOR SPECS

- Power:** 18VDC, from the Comm. Output Module
- Wiring:** 2 wires, Up to 500ft (new or existing)
AWG gauge: 22 to 14AWG (Shielding Preferred)
- Temp 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
- Temp: Semi-conductor Band Gap, $\pm 0.3^{\circ}\text{C}$ @ 25°C
- Pole Rate:** 400 ms
- Ambient:**
32 to 122°F (0 to 50°C),
0 to 95%RH, non-condensing

COMMUNICATION OUTPUT MODULE SPECS

- Power in:** 24VDC/AC, 30mA
- Terminations:**
Comm. & PWR 2 wires to the sensor
Power in 2 wires, 12 to 28 AWG
Output 2 wires per output, 12 to 28 AWG
Override Input 2 wires, 16 to 30 AWG
- Outputs:** Three Maximum
Volts 0 to 5 or 0 to 10VDC, 10kΩ min
Resistance 400Ω to 20KΩ span
Thermistor 10K-2 or 10K-3
- Input (DI):** Ext. Override Dry Contact,
Closed = Occupied
- EZ Mounting:** DIN Rail, Snaptrack or surface
- Material:** ABS Plastic, UL94V-0, RoHS

