



embueTM
HVAC module



Embue HVAC module™ directly controls HVAC equipment as part of an Embue system. It is typically mounted on or near the equipment it controls, and connects via standard low voltage thermostat type wiring. Line voltage configurations are available. embue module communicates with other embue components to efficiently and automatically provide heating or cooling, and to detect equipment problems.

HVAC Equipment Compatibility

Embue HVAC module connects to the equipment that services a single heating / cooling zone via standard low-voltage thermostat wires and is powered by the 24V AC transformer ("C" wire). Because it is mounted on or near the equipment typically in the apartment unit, wiring is fast and simple.

Supported Functions

One or two stage heating
One or two stage cooling | heat pump
Single speed fan
Heat pump changeover
Humidifier or 2nd fan speed
Dehumidifier or 3rd fan speed
24V AC power (required)

Module Terminals

Rh, W1, W2
Rc, Y1, Y2
G
O, B
H/G2
D/G3
C

Embue HVAC module also contains two remote wired temperature sensor inputs. Thermistors with a variety of mounting options are sold separately.

Communication

Embue system components communicate via an IEEE 802.15.4 low power wireless technology. Using the mesh networking capabilities of this technology, the devices in an Embue system are capable of relaying data to otherwise hard-to-reach areas of a building. As more devices are added to the network, the mesh becomes more robust.

Technical Specifications

Physical

Dimensions 5.21" x 5.10" x 1.36" (LxWxH), not including antenna
Weight 6.0 oz

Environmental

Operating Temperature 0°F - 160°F
Operating Relative Humidity 0-90% (non-condensin)

Sensor Range and Accuracy

Two 10K thermistor inputs 32°F - 120°F (± 1°F)

Communication

Wireless Standard Long range IEEE 802.15.4 mesh network

Power

24VAC (±20%)

Approvals

FCC, UL



617-314-6260 | embue.com

Smart Apartments for Residents + Building Intelligence for Owners™

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