OpenBAS BUILDING AUTOMATION SYSTEM

Description

Mircom's OpenBAS-HV-WLSTH Wireless Temperature and Humidity Transmitter works with the OpenBAS-HV-VAVFC Receiver to provide an easy to set up HVAC control system for HVAC end unit applications such as: variable air volume (VAV) boxes, fan and coil units, mini split, water source chiller and heat pump units.

The WLSTH also connects wirelessly to the OpenBAS-HV-RF433R Wireless Receiver Module to allow for connection to any of Mircom's OpenBAS NX series controllers.

The WLSTH works in the 433 MHz unlicensed band to provide an RF link with a matched receiver of up to 30 meters (line of sight).

When used in wireless applications, the WLSTH is powered by two AA Alkaline batteries which provide between 12 to 18 months of operation, depending on the rate of transmission.

The WLSTH comes standard with an integrated RS-485 port supporting multiple protocols such as: BACnet/MSTP, Modbus-RTU, Optomux, N2-Open and terminal ASCII mode.

The WLSTH can be integrated into any network and used as a powerful, yet easy-to-set environment HVAC controller, or used as a standard temperature and humidity transmitter.

When used wirelessly it can be programmed into groups of 10, with each group having up to 199 individual addresses. When wired, it can be addressed between 1 and 199 depending on the protocol.

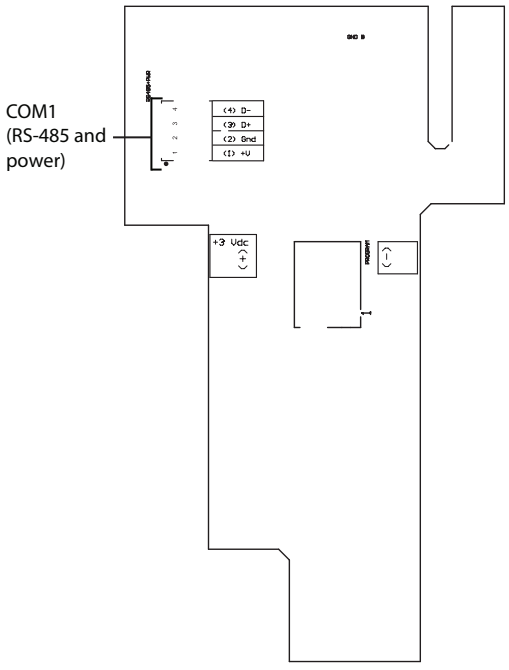
Features

- Programmable and addressable to cover any small, medium, or large projects.
- Industry standard field bus protocols to integrate into any existing BAS system such as: BACnet, Modbus, Optomux, N2-Open, and ASCII.
- Connects to OpenBAS-NWK-ETH3 controller for integration into IP networks and uses the most advanced features and protocols such as distributed computing, USB & Cloud storage, HTML5, JavaScript, XML, Ajax, SMS, and GSM.
- Perform retrofits with minimal impact on architecture and materials.

Typical Applications:

- Generic HVAC applications
- Air handling units
- Roof top units
- Fan & Coil thermostats
- Water source heat pumps
- Temperature and humidity logging

Wiring Diagram



CATALOG NUMBER 6307

Technical Information

Standards	UL 60730-1 FCC Part 15 / ICES-003, Class “B”
Input:	12 Vdc, 16.8 mA max., or 12 Vac 50/60 Hz, 24 mA max., or 24 Vac 50/60 Hz, 24 mA max., or 24 Vdc 16.8 mA max. The power supply is required when using RS-485, or when using wireless communication without batteries Do not use power supply and batteries at the same time
Power Supply Protection:	Resettable fuse 0.1 A
Batteries (OpenBAS-HVWLSTH only):	2 AA alkaline 1.5 V batteries Battery life: 12 to 18 months Do not use nickel cadmium or lithium batteries Do not use batteries and power supply at the same time
Wireless Characteristics (OpenBAS-HV-WLSTH only):	Frequency: 433 MHz Range: 15 m (49 ft) indoors, 30 m (98 ft) outdoors with line of sight
Communication Ports:	1 RS-485 port supporting the following protocols: • BACnet/MSTP • Modbus/RTU-Slave • N2-Open • Optomux • ASCII
Physical Characteristics:	Weight: 120 g (4.2 oz) Enclosure dimensions: 130 mm x 92 mm x 23 mm (5 9/64” x 3 41/64” x 0 59/64”
Ambient Conditions:	Operating temperature: 0° to 40°C (32° to 104°F), 10% to 90% RH noncondensing Indoor Use Only
Purpose of Control:	Thermostat
Construction of Control:	Independently Mounted
Action Type and additional features:	Type 1
Pollution Degree:	2
Software Class:	Class A

Ordering Information

Model	Description
OpenBAS-HV-WLSTH	Wireless Temperature & Humidity Transmitter w/ LCD Display
BT-014	Replacement AA Batteries for WLSTH

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