

NTRCLRHPS-EIO

Room Humidity/Temperature
Sensor with Setpoint Control and
BACnet® Communications



Description

The NTRCLRHPS-EIO Network humidity/temperature sensor accurately measures room humidity and temperature, provides up/down setpoint control, a local override function and transmits this data via embedded BACnet® communications for the most efficient monitoring and control solution.

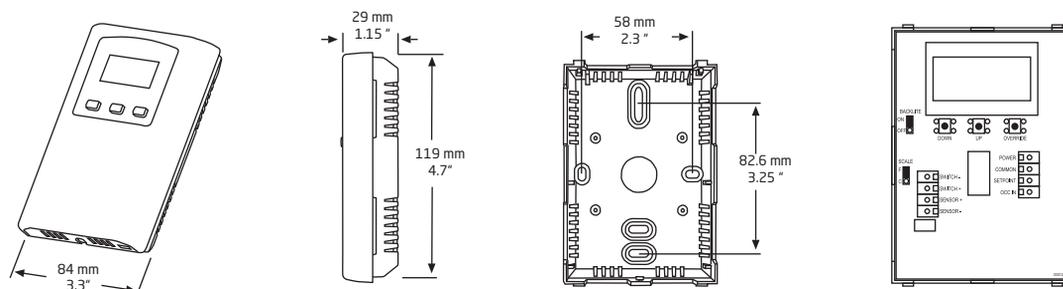
The device connects to an RS-485 MS/TP network to offer a single-point solution for control of indoor air quality and comfort. Features include a back-lit LCD and user menu for easy installation, field-proven sensors and user input controls to add local setpoint and override functions at the same network point.

Features

- ❖ Precision humidity & temperature sensors
- ❖ BACnet® communications
- ❖ Large LCD display with backlight>Selectable °C/°F
- ❖ Programmable Two button, Up/Down setpoint adjustment
- ❖ Momentary override switch with LCD indication
- ❖ Easy to field program
- ❖ Low profile, attractive enclosure
- ❖ Backplate can adapt to several electrical boxes styles or mount directly on the wall

Technical Specifications

Power Supply	20-28 VAC/VDC, non-isolated half-wave rectified
Power Consumption	35 mA max. @ 24 VDC
Communications Interface	Software: BACnet®, MS/TP protocol Hardware: 2-wire RS-485 Baud rate: Locally set from 300..76800 MAC address range: Locally set from 0..127 (Factory default is 3)
Humidity	Sensor: Thermostet polymer based capacitive Accuracy: $\pm 2\%$ RH, 5..95 % RH Range: 0..100% RH, non-condensing Response time: 15 seconds typical
Temperature	Sensor: 10,000 Ω NTC Thermistor Accuracy: $\pm 0.2^\circ\text{C}$, 0..+70°C ($\pm 0.4^\circ\text{F}$, +32..+158°F) Range: 0..+35°C (+32..+95°F)
Setpoint Range	Front panel Up/down buttons available via BACnet® Mode: Temperature ($^\circ\text{C}/^\circ\text{F}$) or RH, menu selectable Adjustable setpoint range: +10..+30°C, +50..+86°F or 10..85 % RH menu selectable Minimum span: 4°C/F or 10 % RH Temperature Resolution: 0.5° or 1°, menu selectable
Override Switch	Front panel momentary pushbutton available via BACnet® Indication: Via BACnet® causes "OCC" segment to light on LCD
LCD Values	Temperature only, RH only or alternating, menu selectable
LCD Resolution	1% RH, 0.5° or 1° C/F, menu selectable
LCD Size	1.5 in W x 0.65" in H (38.1 mm x 16.5 mm)
LCD Backlight	Auto-dimming, Enable/disable via jumper
Operating Temp	0..+50°C (+32..+122°F)
Storage Temp	-20..+65°C (-4..+149°F)
Operating Humidity	0..95% RH non-condensing
Enclosure	White ABS, IP30 (NEMA1)
Mounting	Electrical box or direct to wall
Terminals	Screw terminal block, 14 to 22 AWG
Dimensions	4.7 in x 3.3 in x 1.15 in (119 mm x 84 mm x 29 mm)



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RoHS
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