



NT-TEMP (temperature)

NT-HUM (humidity)

Advanced Remote Sensors

Use with UP32 thermostat

Advanced sensor network allows up to 11 remote sensors on each UP32

Simple 3-Wire Daisy Chain Connection

The power and flexibility of the Net/X Advanced Remote Sensor bus is the best in the industry.

GENERAL DESCRIPTION:

The NetworkThermostat NT-TEMP and NT-HUM remote sensors are designed to sense air temperature (NT-TEMP) and/or humidity (NT-HUM) at locations remote to the UP32. There are five (5) individual sensor temperature sensor types plus one (1) humidity sensor with two options. One of each type of sensor can be used on the UP32, plus a total of up to six (6) remote INDOOR sensors to provide automatic averaging for the space temperature. The sensors are supplied in single-gang mount cases, with optional duct sensor probe, flush mount probe and water probe. The sensors can be used for a myriad of sensing and alerting via both email and SMS text messaging.

Sensing applications can include HVAC control (Indoor and Outdoor sensing) and general monitoring and/or alerting, such as Supply Air, Return Air, Humidity, Walk-In Freezers, Refrigerated Display Cases, Computer Rooms, Wine Rooms, Water Temp, and countless other applications.

STANDARD FEATURES:

- Up to Eleven (11) Sensors Can Be Connected to a Single UP32 Thermostat
- Six (6) of the Eleven (11) Sensors Can Be Used as INDOOR Sensors For Automatic Room Temperature Averaging
- Sensor Types , per thermostat, Include:
 - NT-TEMP : INDOOR – up to 6 with automatic averaging (use Internal Sensor or NT-FS probe)
 - OUTDOOR – qty 1 (use NT-OUTDOOR probe)
 - AUX1 – qty 1 (use NT-PROBE)
 - AUX2 – qty 1 (use NT-PROBE)
 - AUX3 – qty 1 (use NT-PROBE or NT-H20)
 - NT-HUM : HUMIDITY ONLY – (use Internal Sensor)
 - HUMIDTY & INDOOR – (uses both Internal Sensors)
- Measurement Ranges with Sensor Types:

NT-TEMP :	INDOOR	+28°F to +119°F (-2°C to +48°C)	
	OUTDOOR	-54°F to +119°F (-48°C to +48°C)	
	AUX1	-40°F to +200°F (-40°C to +48°C)	
	AUX2	-40°F to +200°F (-40°C to +48°C)	
	AUX3	-40°F to +200°F (-40°C to +48°C)	WATER PROBE: -40°F to +200°F (-40°C to +48°C)
NT-HUM :	HUMIDITY	0 to 100% Non-Condensing	
- By Way of the UP32 Thermostat, Email & Text Message Alerting for up to 4 Recipients; Alerts include High/Low Temperatures for Indoor, Outdoor, and 3 Aux Temp Sensors, and High/Low Humidity (with NT-HUM)
- Simple 3-Wire Communications Bus (using standard CAT5 Cable)
- Up to 300ft (90m) of Cabling Can Be Used
- Selectable Fahrenheit or Celsius Display on UP32 Thermostat



SPECIFICATIONS:

Dimensions: 4.55"H x 2.9"W x 0.5"D (116mm x 74mm x 12.5mm)

NT-TEMP

Rated Voltage:

20V to 30VAC, 24VAC nominal

Internal Temp Sensor Range:

+28°F to 119°F in 1° steps (-2°C to 48°C in 1° steps)

External Temp Sensor Range:

Outdoor: -54 to +119°F (-48 to +48°C) **AUX1, 2, & 3:** -40 to +200°F (-40 to +48°C)

Measurement Accuracy:

+/- 1°F (0.5°C)

Terminations:

RS1 - Data, RS+V - Power, RS2 - Return, 1 & 2 - External Temp Sensor Leads

NT-HUM

Rated Voltage:

20V to 30VAC, 24VAC nominal

Humidity Measurement Range:

0% to 100% Relative Humidity, Non-condensing

Measurement Accuracy:

11%RH to 89%RH (+/- 3%) 0%RH to 10%RH (+/- 7%), 90%RH to 100%RH (+/- 7%)

Internal Temp Sensor Range:

+28°F to 119°F in 1° steps (-2°C to 48°C in 1° steps)

Terminations:

RS1 - Data, RS+V - Power, RS2 - Return, 1 & 2 - External Temp Sensor Leads

WIRING DIAGRAMS:

