NT-URS

- Remote Temperature & Humidity Sensor
- Works with UP32, X7, & X5 Thermostats (temperature/humidity)
- Works with US32 Thermostats (temperature only)
- Flexible Application Use with Four (6) Configurations
- Simple 3-Wire Daisy Chain Connection

GENERAL DESCRIPTION:

The power and flexibility of the NetX Advanced Remote Sensor bus is the best in the industry.

The Network Thermostat NT-URS universal remote sensor is designed to sense temperature and/or humidity at remote locations when connected via the 3-wire NetX RSBus to a UP32, X7, X5 or temperature with a US32 thermostat.

This flexible sensor can be used in several configurations including indoor temperature and humidity, indoor humidity only, outdoor temperature, or as any one of three auxiliary temperature sensors. Additionally, up to six (6) NT-URS sensors can be connected to a single thermostat for indoor temperature averaging.

STANDARD FEATURES:

Multiple Configurations for Flexible Application Use	X7	X5	UP32	US32
INDOOR TEMPERATURE & HUMIDITY Temp with internal sensor or external sensor (NT-FS, NT-RS-S)	●	●	●	
INDOOR TEMP AVERAGE– up to 6 with automatic averaging Temp with internal sensor or external sensor (NT-FS, NT-RS-S)	●	●	●	●
HUMIDITY ONLY – (Internal Sensor) 5 to 95% Non-Condensing	●	●	●	
OUTDOOR – Temperature Only (NT-OUTDOOR sensor required)	●	●	●	●
AUX 1, AUX 2, AUX 3 – Temperature Only (NT-PROBE-SS8 sensor. Inquire about other sensor types.)	●	●	●	

Made in USA

SPECIFICATIONS:

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°F to +119°F (-48°C to +48°C);
Auxiliary Temp Sensor Range:	AUX1, AUX2, AUX3: -40°F to +200°F (-40°C to +93°C)
Internal Humidity Sensor Range:	5% to 95% Relative Humidity, Non-condensing
Measurement Accuracy:	Temperature: ± 1.0°F (±0.5°C); Humidity: 0-90%RH (±3%) ; 20-80% RH (±2%)
Terminations:	RS1 - Data, RS+V – Power, RS2 – Return, 1 & 2 – External Temp Sensor Leads, 1-2, 3-5, 6+ Sensors
Dimensions:	2.1"H x 2.85"W x 1.0"D (53mm x 73mm x 25.4mm)
Approved Cable Types	CAT5 or CAT5e unshielded, or 1-Pair Twisted Shielded Cable with Drain and nominal capacitance of 12pF/ft or less. Use riser or plenum jacket as required by local code.
	Maximum 300ft Total Sensor Cable Length per Thermostat

WIRING DIAGRAMS:

To Thermostat
RS2 RS+V RS1

NT-URS
Set as OUTDOOR Sensor

NT-URS Wiring Instructions

- Only 1 Sensor for each type per thermostat except for INDOOR Sensor
- All non indoor sensors and 1st **INDOOR** sensor wired to RS1-to-RS1, RS2-to-RS2 and RS+V-to-RS+V
- Additional **INDOOR** temperature sensors must be wired AVG-to-RS1, RS2-to-RS2 and RS+V-to-RS+V
- Sensors can be placed in any order in the daisy-chain, except for multiple INDOOR sensors

Secondary Internal Temperature Sensors

NT-URS
Set as INDOOR Sensor

NT-URS
Set as HUMIDITY Only

OTHER SENSORS	INDOOR NT-URS #1	INDOOR NT-URS #2	INDOOR NT-URS #3	INDOOR NT-URS #4	INDOOR NT-URS #5
RS+V	RS+V	RS+V	RS+V	RS+V	RS+V
RS2	RS2	RS2	RS2	RS2	RS2
RS1	RS1	RS1	RS1	RS1	RS1
AVG	AVG	AVG	AVG	AVG	AVG

NT-URS
Set as AUX1

Sensor Options for Connection to Terminals 1- 2

Optional Indoor Temp Sensors		Outdoor Temp Sensor	AUX1, AUX2, AUX3 Temp Sensors

NT-DRS or NT-URS
Set as AUX2

NT-DRS or NT-URS
Set as AUX3

NT-RS-S
Surface Mount
10K Temp Sensor

NT-FS
Flush Mount
10K Temp Sensor

NT-OUTDOOR
Weatherized
10K Temp Sensor

NT-PROBE-SS8
8" 10K Temp Sensor
(Inquire about other types)

NT™ network thermostat