Nexia[™] Temperature & Humidity Sensor **TH100NX** Installer Guide

These instructions are ONLY for connecting the TH100NX to a new or existing Z-Wave network. This sensor CANNOT be used for HVAC control with Trane/American Standard connected thermostats. After installation, allow 10 minutes for the temperature readings to stabilize.

INSTALLATION								
STEP 1 – Find the right location								
Suggested criteria for finding the right sensor location to minimize unintended								
influences on sensor readings:								
1. Do not place near a supply register.								
 Do not place hear windows or on an exterior wall. Do not place behind doors or where air flow can be blocked by furniture. 								
4. Do not place where it may be subject to unnecessary or extreme temperature								
changes.								
5. The optimum zone for correct placement of the sensor is at least 5 feet above								
the floor and at least 2 feet below the ceiling.								
STEP 2 - Remove the Back Plate	Plate and lift							
to unshap it from the Front Plate								
STEP 3 – Insert the supplied batteries								
Two 1.5 Volt AAA batteries are supplied in the box.								
STEP 4 – Put the Z-Wave bridge in Add mode								
Press the + or "Add Device" button on the bridge.								
STEP 5 – Add the sensor								
Stand where the sensor is to be installed and press and release the "	INSTALL"							
button on the interior of the sensor.								
The status I ED next to the button on the interior of the sensor will blir	ok rapidly for							
3 seconds when it has been added to your Z-Wave network.								
STEP 7 – Mount the Back Plate at the right location								
Anchors and screws are provided to mount the Back Plate.								
STEP 8 – Mount the Sensor								
Once successfully added, snap the sensor onto the mounted Back Pl	ate.							
Press once to add or remove the sensor from a 7-W/ave								
network.								
• Press and hold, approximately 10 seconds, until the STATUS	ECC STATEMENT							
LED starts blinking to restore factory defaults.								
Press three times rapidly to send a "BATTERY_REPORT" and	two conditions: (1) This dev							
STATUS LED – Function following a button press:	must accept any interference							
The LED will give an indication for 30 seconds following a button	operation.							
press. In that time the following will be seen:	This equipment has been te							
Continuous On: Device is added to a Z-Wave network	Device, pursuant to Part 15							
Slow Blinking: Device is not added to a Z-Wave network	reasonable protection again							
Fast Blinking: Successfully added to or removed from a Z-	used in accordance with the							
Wave network	communications. However,							
	particular installation. If this							
ADD – Adding the sensor to an existing 2-wave network	user is encouraged to try to							
1. Set your home's Z-Wave Bridge into ADD mode.	measures.							
 Press and release the INSTALL button on the sensor. The Status I ED will blick rapidly for 3 seconds when it has been 	Reorient or relocate the							
added to your Z-Wave network. You bridge may also indicate that	Connect the equipme							
the sensor was successfully added.	receiver is connected							
REMOVE - Removing the sensor from a Z-Wave network	Consult the dealer or a							
1. Set your home's Z-Wave Bridge into REMOVE mode.	Any changes or modification							
2. Press and release the INSTALL button on the sensor.								
3. The Status LED will blink rapidly for 3 seconds when it has been This device complies								
removed from your Z-Wave network. Your bridge may also indicate subject to this device								
that the sensor was successfully removed.	operation of the device.							
	La présant apparail act							
	radio exempts de licence. L							
	l'appareil ne doit pas produi							



Part 15 of the FCC Rules. Operation is subject to the following vice may not cause harmful interference, and (2) This device ce received, including interference that may cause undesired

ested and found to comply with the limits for Class B Digital of the FCC Rules. These limits are designed to provide nst harmful interference in a residential installation. This an radiate radio frequency energy and, if not installed and instructions, may cause harmful interference to radio there is no guarantee that interference will not occur in a equipment does cause harmful interference to radio or can be determined by turning the equipment off and on, the correct the interference by one or more of the following

- ne receiving antenna
- on between the equipment and receiver
- ent into an outlet on a circuit different from that to which the
- an experienced radio/TV technician for help

ns not expressly approved by the party responsible for user's authority to operate the equipment.

dustry Canada license-exempt RSS standard(s). Operation is conditions: (1) this device may not cause interference, and (2) interference, including interference that may cause undesired

forme aux CNR d'Industrie Canada applicables aux appareils exploitation est autorisée aux deux conditions suivantes : (1) ire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'encompromettre le fonctionnement.

TROUBLESHOOTING										
SYMPTOM		MC	CAUSE	CURE			CURE			
Sensor fails to add to the network (slow blinking of the Status LED and no pairing		d to the king of the	Out of range	Add a Z-Wave the sensor. 1. Add a repea 2. Try to add t	device (e.g. light module/dimmer) at a location between the bridge and network following that device's instructions. to the network again at the desired sensing location.					
action seen on the bridge)		e bridge)	Improperly removed from network previously	 Remove the sensor from the network following the steps in the "REMOVE" table. Try to Add the sensor to the network. 						
Sensor drops connection Edge of			Edge of range	Add a Z-Wave repeating device (e.g. light module/dimmer) at a location between the bridge and sensor.						
Button press ignored		red	Button press too fast or too slow	Use firm ½ second button press.						
FACTORY RESET										
Factory Reset should only be used when the primary controller is missing or otherwise inoperable. Press and hold, approximately 10 seconds, until the STATUS LED starts blinking to restore factory defaults.										
ASSOCIATION GROUP INFORMATION TABLE										
Group	Profile	Profile Command Classes				Group Name			Max Devices	
1	Lifeline	Battery Report, Multilevel Sensor Report, Device Reset Locally Notification					1			
2	Sensor	or Multilevel Sensor Report				Temperature Reports			5	
3	Sensor	Multilevel	Aultilevel Sensor Report			Humidity Reports			5	
4	Sensor	Basic Set	c Set			Temperature Driven Basic Sets		n Basic Sets	5	
5	Sensor	or Basic Set				Humidity Driven Basic Sets 5			5	
6	6 Sensor Battery Report				Battery Reports 5			5		
				Z-WAVE CO	NFIGURAT	TION TAE	BLE			
Parame	Parameter Description				Length (Bytes)	R/W	Default Value	Valid Values		
1	1 Time between E		attery Reports (hours) 1			R/W	0	0 = Do not send periodically; Range: 1–127 hours		
3	S	end BASIC SE	T ON below this temperature	(See #20)	1	R/W	121	121 = Disabled; Range; 15 - 120 F 121 = Disabled; Range; 15 - 120° F		
4	4 Send BASIC SET OFF above this temperate			(See #20)	1	R/W	121	121 = Disabled; Range: 15 – 120° F		
5	5 Send BASIC SET OFF below this temp			(See #20)	1	R/W	121	121 = Disabled; Range: 15 – 120° F		
6	6 Send multiple a		ttempts for all BASIC SET commands		1	R/W	0	0 = Disabled; 1-5 = Number of extra attempts sent every minute after first send		
7	7 Temperature Units		nits		1	R/W	1	1 = Fahrenheit; 0 =	Celsius	
8	8 Association Group1 – Temperature delta auto			send threshold	1	R/W	10	Range: 1 – 200; Parameter is in tenths of degrees.		
9	9 Association Group1 – Periodic temperature ser		nd interval	1	R/W	0	0 = Disabled; Rang 0 = Disabled; Rang	je: 1-120 minutes je: 1 - 50		
10	Association Group2 – Temperature delta auto Association Group2 – Periodic temperature se		nd interval	1	R/W	10	Parameter is in tenths of degrees.			
12 Send BASIC SET		end BASIC SE	ET ON above this humidity (See #20)		1	R/W	0	0 = Disabled; Range: 1-100%		
13 Send BASIC SET ON below this humidity (See		e #20)	1	R/W	0	0 = Disabled; Range: 1-100%				
14 Send BASIC SET OFF above this humidity (See #		ee #20)	1	R/W	0	0 = Disabled; Range: 1-100%				
15 Send BASIC SET OFF below		T OFF below this humidity (S	below this humidity (See #20) 1		R/W	0	0 = Disabled; Range: 1-100%			
16 Association Group1 – Humidity delta auto		up1 – Humidity delta auto send	threshold	1	R/W	5	Range: 1-50%			
17	Association Group3 – Periodic humidity send interval		Iterval	1	R/W R/W	5	U = Disabled; Range: 1-120 minutes			
19	A	ssociation Gro	up3 – Periodic humidity send in	nterval	1	R/W	0	0 = Disabled: Rang	ie: 1-120 minutes	
20	20 BASIC SET options for temperature and humid		lity	1	R/W	1	Configuration Register Combinations: 1 = Enable Registers 2, 5, 12 15 2 = Enable Registers 2, 5, 13, 14 3 = Enable Registers 3, 4, 12, 15 4 = Enable Registers 3, 4, 13, 14			
21	T	Temperature Offset		1	R/W	0	Range: -7 to 7° F			
22	<u> </u>	Humidity Offset			1	R/W	0	Range: -7 to 7%	too	
23	23 Humidity Filter Time Constant			1	K/VV	30	Range: 1 – 60 minu	les		

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