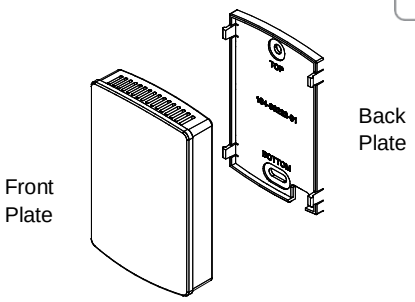
Nexia™ Temperature & Humidity Sensor

TH100NX Installer Guide

IMPORTANT:

These instructions are ONLY for connecting a Z-Wave wireless temperature sensor to a new or existing Z-Wave network. This sensor CANNOT be used as a remote temperature sensor for an 824, 850 or 1050 comfort control.



INSTALLATION

1. Remove the back plate by inserting a small screwdriver beneath the tab at the bottom of the back plate and unsnap it from the front.
2. Install two AAA batteries (included).
3. Determine the physical location of the sensor, FOR INDOOR USE ONLY.
   a. For wall mounting, use the provided anchors and screws to mount the back plate.
4. Adding to a Nexia Z-Wave Network (Non-Nexia Networks see the Z-Wave Installation section below)
   a. Use the "Add Device" button on the Nexia portal or mobile app to start the inclusion process.
   b. When prompted, press the **INSTALL** button on the sensor
   c. Observe enrollment updates and success indication on the Nexia portal or mobile app, additionally the sensor's Status LED will blink rapidly for 3 seconds.
5. Snap the sensor onto the back plate keeping the text in the same orientation as the text on the back plate.
6. Use your Nexia account to confirm the sensor is listed on the device list.

SUMMARY OF OPERATION

INSTALL BUTTON – OVERVIEW

- Press once to add or remove the sensor from a Z-Wave Network.
- Press and hold for 10 seconds to restore factory defaults.
- Press three times rapidly to send a "BATTERY_REPORT" and "WAKE_UP_NOTIFICATION" (if installed on a network). The sensor will stay awake for 30 seconds.

STATUS LED, following a button press:

- LED stays on for 30 seconds.
- Continuous On: Device is enrolled on a Z-Wave Network.
- Continuous Slow Blinking: Device is not enrolled on a Z-Wave Network.
- Fast Blinking: Successfully added/removed into/from Z-Wave network.

Z-WAVE INSTALLATION

ADD – adding the sensor to an existing Z-Wave network

1. Set your home's Z-Wave Bridge into ADD Mode.
2. Press and release the **INSTALL** button on the sensor.
3. The Status LED will blink rapidly for 3 seconds when it has been added to your Z-Wave network. Your bridge will also indicate that the sensor was successfully added.

REMOVE – removing the sensor from a Z-Wave network

1. Set your home's Z-Wave Bridge into REMOVE Mode.
2. Press and release the **INSTALL** button on the sensor.
3. The Status LED will blink rapidly for 3 seconds when it has been removed from your Z-Wave network. Your bridge will also indicate that the sensor was successfully removed.

Troubleshooting: If the sensor fails to add to the network, add a Z-Wave repeating device (e.g. light module/dimmer) at a location between the bridge and sensor. First add the repeater to the network following that device's instructions. Then try to add the sensor to the network again.

ASSOCIATION GROUP INFORMATION TABLE

Group	Profile	Command Classes	Group Name	Max Devices
1	Lifeline	Battery Report, Multilevel Sensor Report, Device Reset Locally Notification	Lifeline	1
2	Sensor	Multilevel Sensor Report	Temperature Reports	5
3	Sensor	Multilevel Sensor Report	Humidity Reports	5
4	Sensor	Basic Set	Temperature Driven Basic Sets	5
5	Sensor	Basic Set	Humidity Driven Basic Sets	5
6	Sensor	Battery Report	Battery Reports	5

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

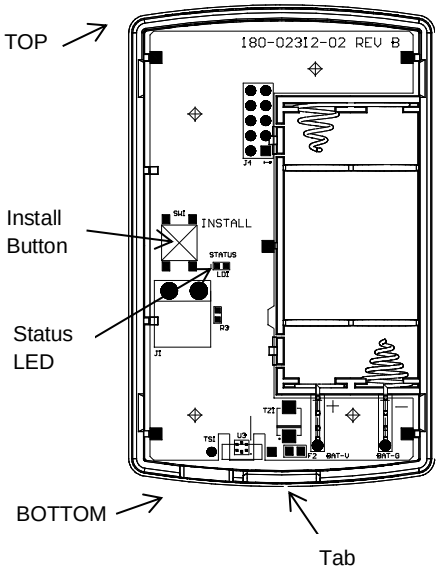
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'encompromettre le fonctionnement.

SPECIFICATIONS

Size (inches)	3.25 x 2.0 x 0.60
Weight	.25 lbs.
Power	2 x AAA Alkaline Batteries
RF	Z-Wave ZM5202, US 908.4 MHz

FACTORY RESET

Factory Reset should only be used when the primary controller is missing or otherwise inoperable.



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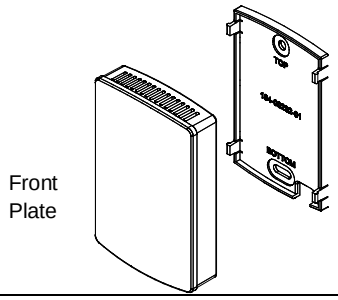

CONFIGURATION TABLE

Parameter	Description	Length (Bytes)	R/W	Default Value	Valid Values
1	Time between Battery Reports (hours)	1	R/W	0	Range: 1–127 hours 0 = Do not send periodically
2	Send BASIC SET ON above this temperature (See #20)	1	R/W	121	Range: 15° – 120° F 121 = Disabled
3	Send BASIC SET ON below this temperature (See #20)	1	R/W	121	Range: 15° – 120° F 121 = Disabled
4	Send BASIC SET OFF above this temperature (See #20)	1	R/W	121	Range: 15° – 120° F 121 = Disabled
5	Send BASIC SET OFF below this temperature (See #20)	1	R/W	121	Range: 15° – 120° F 121 = Disabled
6	Send multiple attempts for all BASIC SET commands	1	R/W	0	1-5 = Number of extra attempts sent every minute after first send 0 = Disabled
7	Temperature Units	1	R/W	1	1 = Fahrenheit 0 = Celsius
8	Association Group1 – Temperature delta auto send threshold	1	R/W	10	Range: 1 - 200 Parameter is in tenths of degrees.
9	Association Group1 – Periodic temperature send interval	1	R/W	0	Range: 1-120 minutes 0 = Disabled
10	Association Group2 – Temperature delta auto send threshold	1	R/W	10	Range: 1 - 50 0 = Disabled Parameter is in tenths of degrees.
11	Association Group2 – Periodic temperature send interval	1	R/W	0	Range: 1-120 minutes 0 = Disabled
12	Send BASIC SET ON above this humidity (See #20)	1	R/W	0	Range: 1–100% 0 = Disabled
13	Send BASIC SET ON below this humidity (See #20)	1	R/W	0	Range: 1-100% 0 = Disabled
14	Send BASIC SET OFF above this humidity (See #20)	1	R/W	0	Range: 1-100% 0 = Disabled
15	Send BASIC SET OFF below this humidity (See #20)	1	R/W	0	Range: 1-100% 0 = Disabled
16	Association Group1 – Humidity delta auto send threshold	1	R/W	5	1-50%
17	Association Group1 – Periodic humidity send interval	1	R/W	0	Range: 1-120 minutes 0 = Disabled
18	Association Group3 – Humidity delta auto send threshold	1	R/W	5	Range: 1-30% 0 = Disabled
19	Association Group3 – Periodic humidity send interval	1	R/W	0	Range: 1-120 minutes 0 = Disabled
20	BASIC SET options for temperature and humidity	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	Temperature Offset	1	R/W	0	Range: -7° to 7° F
22	Humidity Offset	1	R/W	0	Range: -7% to 7%
23	Humidity Filter Time Constant	1	R/W	30	Range: 1 – 60 minutes

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