This sensor should be installed by a qualified HVAC technician.

After installation, allow 10 minutes for the temperature readings to stabilize.

NOTE: This document is intended for use with software version 5.4 or newer when using this sensor with a Trane® or American Standard® connected thermostat (824/850/1050).

STEP 1 – Find the right location

Suggested criteria for finding the right sensor location when used to control a home or as a thermostat sensor:

- 1. Do not place near a supply register.
- 2. Do not place near windows or on an exterior wall.
- 3. Do not place behind doors or where air flow can be blocked by furniture.
- Do not place where it may be subject to unnecessary or extreme temperature changes; unintended influences may cause adverse environment sensing.
- 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

Insert a small screwdriver beneath the tab at the bottom of the Back Plate and lift to unsnap it from the front. WRITE DOWN the Serial Number from the Back Plate of the sensor.

STEP 3 – Insert the supplied batteries

Two 1.5 Volt AAA batteries are supplied in the box.

Please see Table 1. on Page-2 to continue with adding a wireless sensor to the 824, 850 and 1050 thermostats.

STEP 4 – Put the Z-Wave bridge in Add mode
Press the + or Add button on the bridge.
STEP 5 – Add the sensor
Stand where the sensor is to be installed and press and release the button labeled "INSTALL" on the interior of the sensor
STEP 6 – Connection Status.
The status LED next to the button on the interior of the sensor will blink 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 FINAL INSTALLATION STEP
Once successfully added, snap the sensor onto the mounted Back Plate.

It will take 10 minutes after installation for the temperature and humidity values to stabilize due to handling.

SERIAL#	

LOCATION	Or zone name if applicable

Home owner should retain a copy of this document for their records.

ZONE NOTES:

LOCATION:	LOCATION / :	
SERIAL#	SERIAL#	
LOCATION:	LOCATION:	
SERIAL#	SERIAL#	
LOCATION:	LOCATION:	
SERIAL#	SERIAL#	
LOCATION:	LOCATION:	
SERIAL#	SERIAL#	



Table 1.	1. ADDING A ZSENS930 EIRST FOLLOW STEPS ONE THROUGH THREE IN THE INSTALLATION TABLE							Page - 2		
	STEP 4.1	STE	P 4.2	STEP 4.3		STEP 4.4				
	Access the "Service	Menu" Put the	e stat in "Add" mode	Add the Z-Wave sensor		On screen response				
	Select "Indoor Sensor Setup" Select "Wireless Sensor Setup"		"Wireless Sensor"	Stand where the sensor is to be		Text at top of the	screen should char	ige:		
Action			en on the next n select " Add "	button labeled "INSTA	LL" on the	From: "Waiting to Add Device – Press and Hold to Cancel"				
				interior of the sensor.		To: "Adding Dev Waiting to Add Device – Pr	ress and Hold to Cancel		Adding Devic	e
				INS	TALL	° • •	•.		• • • • •	
			Add			○ ● 240 Se	ecs	То	• 230 Secs	0
Button	Indoor Sensor		1			•••	••		••••	
	Setup	ノ		The STATUS LED will	l blink rapidly	After the sensor i	is added, " Tempera	ture Sensor a	dded as Device	ə [X]:
				for 3 seconds		Sensor added s	uccessfully." shoul	d appear.		
Table 2	ASSIGNING A	ZSENS930			Table 3	UNASSIGNIN	G A ZSENS93	0		
Table 2.	FIRST, FOLLOW ST	TEPS 1 THROU	JGH 3 IN THE INST	ALLATION TABLE						
	ON PAGE 1 AND AL	L THE STEPS	IN TABLE 1.							
STEP 5.1					STEP 1	Select the sensor to	o be removed from t	the assigned se	ensor list. Use th	ne serial
Select an	under the label "Avail	lable Sensor on the	e right side of the Ser	Isor Assignment screen	Select an assigned	number to verify the device is the correct sensor.				
sensor	NOTE: The selected s	sensor will be hi	ighlighted in blue.		sensor	Zana Nama Science	d Selisor will be high		Johlo Concoro	
	Zone Name Sen	sor Assigned Stat	te Availab	le Sensors		Zone Name Se	ensor Assigned State	Ava	lilable Sensors	
	NativeZone - 1		Wireless Sensor			NativeZone - 1	fortLink II (Onboard Sens	or		
	1 SensorName Comfor	rtLink II (Onboard Se	1806R2AAWX - (ensor)	Dnline		2 SensorName Wire	less Sensor			
						1806	R2AAWX - Online			
					Screen 3					
Screen 1										
						Pofrash	Mirologo Concor	Dono		aaalan
	Refresh	Wireless Sens	sor Done	Assign	STED 2	Once an assigned s	sensor is selected "	Assign" will ch	ange to	
STEP 5.2	Once the sensor is se	elected "Assign	" will illuminate	<u>^</u>	Unassign	"Unassign" on the	Navigation Bar.	0	Ū)
Assign the	on the Navigation Ba	ar. Select " Assi g	gn".		the sensor	Select "Unassign".				
3611301	Repeat until all need		assigned.		STEP 3	The list of assigned	I and averaged sens	sors is now upd	lated and the pr	eviously
STEP 5.3					Sensor	asssigned sensor is moved to the "Available Sensors" list. (Screen 4)				
Sensor is now	The list of assigned an previously unassigned	nsors on the left is no included. (Screen 2)	is now unassigned.	from all sensors are	e averaged together	evenly to deta	rmine the temperat	erature of		
assigned.				the conditioned spa Zone Name Se	ace. ensor Assigned State	Ava	ilable Sensors			
	Zone Name Sens	sor Assigned Stat	e Availabl	e Sensors		NativeZone - 1		ComfortLink	II (Onboard Sensor)	
	NativeZone - 1					1 SensorName Wire	less Sensor			
	1 SensorName Comfor	rtLink II (Onboard Se	:nsor)			1806	HZAAWX - Unline			
	2 SensorName Wireles 1806R2	ss Sensor !AAWX - Online								
Screen 2					Screen 4					
CONCOLLE										
						Refresh	Wireless Sensor	Done	A	ssign
	Refresh	Wireless Sens	or Done	Assign	STEP 4	Select "Done" to sa	ave and exit the			
STEP 5.4	Select " Done " to save Sensor Setup screen	e and exit the In	ndoor			Indoor Sensor Setu	ip screen.			
	•									
	I									
After this ste	ep follow	NOTE: By defau	It all sensors in the As	ssigned list are	NOTE: The thermostat will not allow you to exit this screen without at least one sensor assigned to the system.					
if not alread	y complete	o define the terr	perature of the condi	tioned space.						
				J						

Table 4	REMOVING A	ZSENS930								Page - 3	
	NOTE: This will work for both "Offline" and "Online" sensors and only ZSENS930 sensors may be removed this way. The Summary Table will also work.										
	STEP 1	STEP 2				STEP 3			STEP 4		
	Unassign the sensor	Select the "Offline"	ct the " Offline " sensor.			Remove the sensor			Screen change		
Action	Follow steps 1 through 3 in Table 3 for the sensor(s) tha are to be removed. They must be unassigned to be removed.	Once the sensor is in the " Available Sensors " list, t select the "Wireless" button and then select the sensor to be removed. Use the serial number to verify the device is the correct sensor. NOTE: The selected sensor will be highlighted in blue.			Tap the " Remove " button NOTE: If the sensor is " Online " you will need to press the " INSTALL " button on the inside of the sensor while " Waiting to Remove Device ".			Select " Done ". The sensor is no longer included in the " Available Sensors " list. (Screen 6) NOTE: To return a sensor to the list you will have to go through the steps of Table 1 .			
	Zone Name Ser	nsor Assigned State	Available S	ensors		Zone Name S	ensor Assigned	d State	Available S	ensors	
	NativeZone - 1		ComfortLink II (Remot	ComfortLink II (Remote Sensor) Non-Communicating Sensor		NativeZone - 1			ComfortLink II (Remot	te Sensor)	
	1 SensorName ComfortLink II (Onboard Sensor)		Non-Communicating			1 SensorName ComfortLink II (Onboard Senso		ard Sensor)	Non-Communicating Sensor		
			Location : Relay Panel		ion : Relay Panel				Location : Relay Pan	el	
Screen 5			1644R2ABPX - Offlin	e	Screen 6						
	Refresh	Wireless Sensor	Done	Assign		Refresh	Wireless S	Sensor	Done	Assign	

NOTE: This sensor can be added to any Z-Wave network. It can also be added to a Trane or American Standard connected thermostat with a built in Z-Wave bridge then assigned as an indoor temperature sensor (IDT) from the Service Menu.

SUMMARY OF SENSOR OPERATION	TROUBLES	HOOTING			
INSTALL BUTTON – Function Overview	SYMPTOM	CAUSE	CURI	E	
 Press once to add or remove the sensor from a Z-Wave Network. Press and hold, approximately 10 seconds, until the STATUS LED starts blinking 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. 		Out of range	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 at the desired sensing location.		
STATUS LED – Function following a button press:	pairing action seen on the	Improperly removed	Remove the sensor from the network, follow the		
The LED will give an indication for 30 seconds following a button press. In that	bridge)	from network previously.	steps	In Table 3. Then add it back to the network.	
 Continuous On: Device is enrolled on a Z-Wave Network. Slow Blinking: Device is not enrolled on a Z-Wave Network. Fast Blinking: Successfully added to or removed from a Z-Wave network. 	Sensor drops connection intermittently	Edge of range	Add a modu and s	2-Wave repeating device (e.g. light le/dimmer) at a location between the bridge ensor.	
ADD – Adding the sensor to an existing Z-Wave network	Button press	Button press	Firm 1/2 second button press.		
1. Set your home's Z-Wave Bridge into ADD Mode.	ignored	slow			
 Press and release the INSTALL button on the sensor. 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 	Sensor goes from "Online" to "Offline"and "Missing	Sensor is enabled but offline (not	Chan	ge the batteries in the sensor.	
successfully added.			Remove the offline sensor following the steps from Table 3 then reinstall or add a new sensor.		
REMOVE – Removing the sensor from a Z-Wave network	alarm	reporting).			
1. Set your home's Z-Wave Bridge into REMOVE Mode. 2. Press and release the INSTALL button on the sensor.	TSO.001.00 is shown		Add a signal repeater.		
 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. 	"Low Battery" alarm TSO.004.00	Sensor is reporting a low battery.	Change the batteries in the sensor.		
FACTORY RESET	SPECIFICATI	ONS			
Factory Reset should be used only when the primary controller is missing or otherwise inoperable. Press and hold, approximately 10 seconds, until the Status LED starts blinking.	atus SIZE (INCHES): 3.25 X 2.0 x 0.60 POWER: 2 X AAA Alkal		POWER: 2 X AAA Alkaline Batteries		
** FOR INDOOR USE ONLY **	WEIGHT:	0.25 LBS		RF: Z-WAVE ZM5202,US 908.4 MHz / 916 MHz	

Z-WAVE C	ONFIGURATION TABLE [*]					Page - 4	
Parameter	Description	Length (Bytes)	R/W	Default Value	Valid Values		
1	Time between Battery Reports (hours)	1	R/W	0	0 = Do not send periodically; Range: 1–127 hours	s	
2	Send BASIC SET ON above this temperature (See #20)	1	R/W	121	121 = Disabled; Range: 15 – 120° F		
3	Send BASIC SET ON below this temperature (See #20)	1	R/W	121	121 = Disabled; Range: 15 – 120° F		
4	Send BASIC SET OFF above this temperature (See #20)	1	R/W	121	121 = Disabled; Range: 15 – 120° F		
5	Send BASIC SET OFF below this temperature (See #20)	1	R/W	121	121 = Disabled; Range: 15 – 120° F		
6	Send multiple attempts for all BASIC SET commands	1	R/W	0	0 = Disabled; 1-5 = Number of extra attempts ser minute after first send	nt every	
7	Temperature Units	1	R/W	1	0 = Celsius; 1 = Fahrenheit		
8	Association Group1 – Temperature delta auto send threshold	1	R/W	10	Range: 1 – 200; Parameter is in tenths of degree	s.	
9	Association Group1 – Periodic temperature send interval	1	R/W	0	0 = Disabled; Range: 1-120 minutes		
10	Association Group2 – Temperature delta auto send threshold	1	R/W	10	0 = Disabled; Range: 1 – 50; Parameter is in tent degrees.	ths of	
11	Association Group2 – Periodic temperature send interval	1	R/W	0	0 = Disabled; Range: 1-120 minutes		
12	Send BASIC SET ON above this humidity (See #20)	1	R/W	0	0 = Disabled; Range: 1–100%		
13	Send BASIC SET ON below this humidity (See #20)	1	R/W	0	0 = Disabled; Range: 1-100%		
14	Send BASIC SET OFF above this humidity (See #20)	1	R/W	0	0 = Disabled; Range: 1-100%		
15	Send BASIC SET OFF below this humidity (See #20)	1	R/W	0	0 = Disabled; Range: 1-100%		
16	Association Group1 – Humidity delta auto send threshold	1	R/W	5	Range: 1-50%		
17	Association Group1 – Periodic humidity send interval	1	R/W	0	0 = Disabled; Range: 1-120 minutes		
18	Association Group3 – Humidity delta auto send threshold	1	R/W	5	0 = Disabled; Range: 1-30%		
19	Association Group3 – Periodic humidity send interval	1	R/W	0	0 = Disabled Range: 1-120 minutes		
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: 0 - 60 minutes 0 = Disabled		
* Configurable	through third party Z-Wave systems.						

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/IC NOTICE	S			

FCC ID: WIBTZW020 - 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 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

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

Increase the separation between the equipment and receiver

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

IC ID: 9374A-W020 - 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.

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