

Serio Series® ZG6950 & ZG6955

Sensor-Operated Gear Driven Type Faucets with Battery Powered, Hardwired or Connected Installation, Operation, Maintenance and Parts Manual







ZG6955









<u>↑</u> WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

▲ ADVERTENCIA: Cáncer y daño reproductivo - www.P65Warnings.ca.gov

⚠ AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

LIMITED WARRANTY

All goods sold hereunder are warranted to be free from defects in material and factory workmanship for a period of three years from the date of purchase. Decorative finishes warranted for one year. We will replace at no costs goods that prove defective provided we are notified in writing of such defect and the goods are returned to us prepaid at Sanford, NC, with evidence that they have been properly maintained and used in accordance with instructions. We shall not be responsible for any labor charges or any loss, injury or damages whatsoever, including incidental or consequential damages. The sole and exclusive remedy shall be limited to the replacement of the defective goods. Before installation and use, the purchaser shall determine the suitability of the product for his intended use and the purchaser assumes all risk and liability whatever in connection therewith. Where permitted by law, the implied warranty of merchantability is expressly excluded. If the products sold hereunder are "consumer products," the implied warranty of merchantability is limited to a period of three years and shall be limited solely to the replacement of the defective goods. All weights stated in our catalogs and lists are approximate and are not guaranteed.

NOTICE: READ ENTIRE MANUAL PRIOR TO INSTALLING PRODUCT.

Rev: A | Date: 02/28/24 | C.N. No. 145873 | Prod./Dwg. No. FV849

Specifications

Sensor Range: Fixed

6 "AA" 1.5V Alkaline Cells Parallel for Faucet

Voltage: 4 "AA" 1.5V Lithium Cells Series for -W2 Connected Monitor

Operating Water Pressure: 10 psi [172 kPa] (Running); 125 Psi [552 kPa] Max (Static)

Operating Temperature: 33°F to 140°F [1°C to 60°C]

Aerator: 0.5 GPM Vandal-Resistant (Standard)

Important Safety Information

· Do not convert or modify this Zurn product. All warranties will be voided.

- · All plumbing is to be installed in accordance with applicable codes and regulations.
- Water supply lines must be sized to provide an adequate volume of water for each fixture.
- · Flush all water lines prior to making connections.
- Warning: Do not connect an external power supply to the hydrogenerator's barrel jack connector. Doing so could reduce product
 performance or pose a fire hazard

Prior to Installation

- · Before installing your faucet, the items listed below should already be installed on-site:
 - Lavatory/Sink
 - Drain line
 - Hot and cold water supply line or pre-tempered water supply line.
 - Installer/Servicer should not use pipe dope or teflon/thread sealant anywhere on this product, most notably threads and connection points.
 - Care shall be taken when installing this product to prevent marring of any exposed or decorative surfaces.
- · Be sure the sink/lavatory/basin is clear from any objects upon making the sensor to electronics connection.

<u>NOTE</u>: The information in this manual is subject to change at any time without notice. Installations may be performed at different times of construction by different individuals. For this reason, these instructions should be left on-site with the facility or maintenance manager.



Electronic emission notices

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.

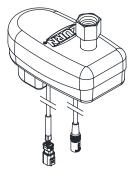
The following information refers to Zurn Smart Connected Products, types: -W2. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference intended for use in non-residential/non-domestic environments. This equipment generates, uses, 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 an authorized dealer or service representative for help.

Zurn is not responsible for any radio or television interference caused by using other than specified or recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

Responsible party: ZURN INDUSTRIES, LLC 511 W. Freshwater Way, Milwaukee, WI U.S.A. 53204 · Ph. 1-855-ONE-ZURN, Fax 919-775-3541

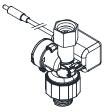
Package Contents



Electronic Box



Connected Monitor (If ordeded)



Hydro Generator

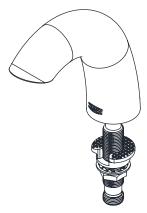


Batteries

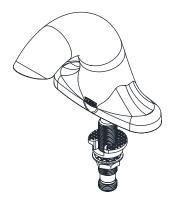




Aerator & Key



ZG6950 Faucet Body & Mounting Hardware



ZG6955 Faucet Body & Mounting Hardware

Required Tools

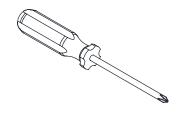


Adjustable Wrench



Hex Key Wrenches (Supplied)

OR



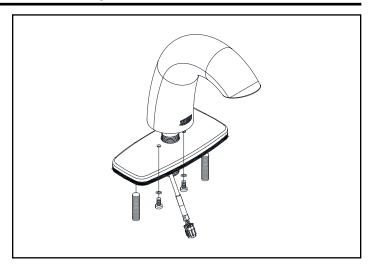
Phillips Head Screwdriver



Cover Plate Installation Instructions (ZG6920 Series)

(For ZG6950 faucets with -CP4 or -CP8 suffix).

Pass the sensor connector and shank through the cover plate, securing them to the faucet using the supplied screws.

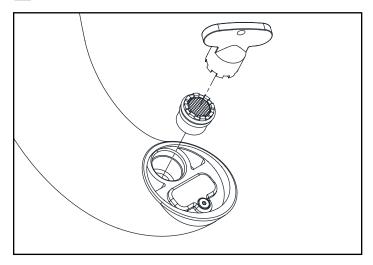


Spout Installation Instruction

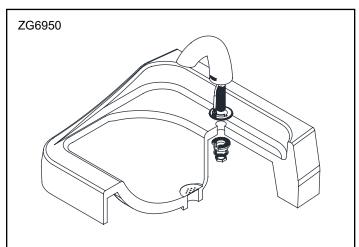
<u>NOTE</u>: Before installation, turn off water supplies to existing faucet and remove faucet if replacing an existing device. Clean the faucet basin and clear away debris. Flush all supply lines before connecting the faucet. Failure to do so may result in debris clogging the inlets and/or internal control and mixing valve

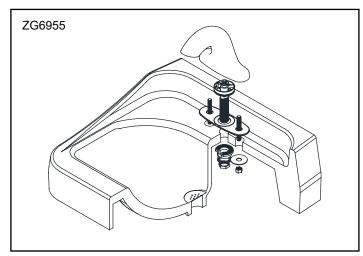
1. Carefully screw aerator into spout using included tool.

↑ Take care to not pinch blue o-ring

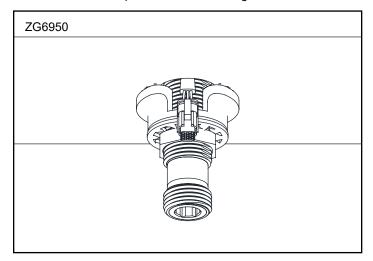


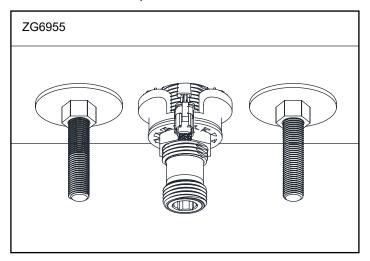
2. Install spout to sink using spout base gasket, plastic mounting washer, star washer, mounting nut.





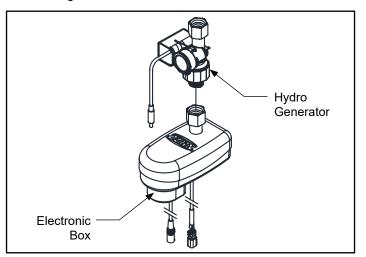
3. Ensure that slot in plastic washer is facing forward and sensor cable is routed outside of the plastic washer.



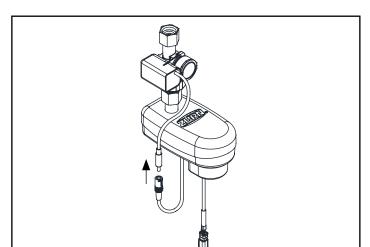


Electronics Module Installation Instructions (-HYD)

1. Connect hydrogenerator and electronics module with the swivel nut turning counter clockwise.

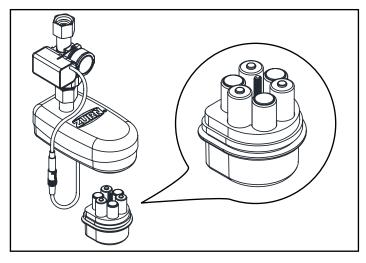


Open battery module using supplied Allen wrench and install supplied alkaline batteries in the electronics module in the configuration as shown.

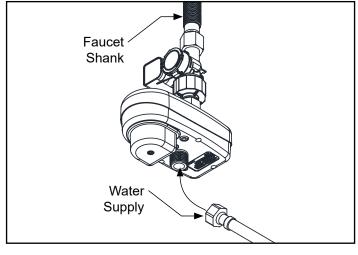


2. Connect electronics module power cable to hydrogenerator.

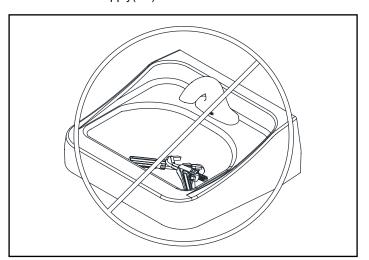
4. Tighten electronics module assembly with hydrogenerator to shank and connect water line(s).

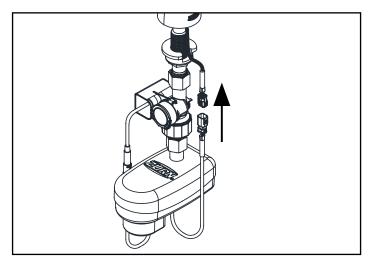


 Ensure sink is clear of tools/debris and is in normal operating condition. Remove protective film from sensor lens if needed.
 Turn on water supply(ies).



Connect sensor cable form electronic module to sensor cable from spout.



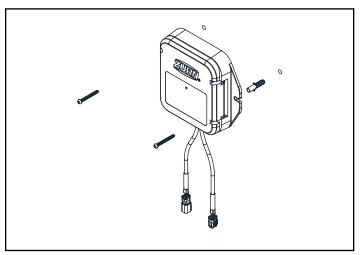


Note: For the initial installation, utilize the provided alkaline batteries. When replacing batteries thereafter, avoid combining different battery brands or intermixing old and new batteries.

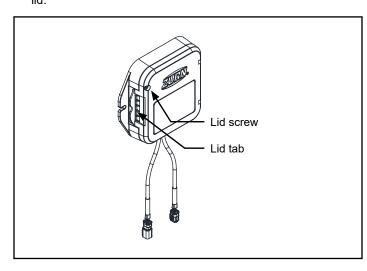
Connected Monitor Installation Instructions (-W2)

NOTE: Follow and complete Electronics Module Installation instruction before continue.

1. Install Monitor on wall surface within 2 feet radius of faucet with dry wall anchors & screws or doubled sided VHB tape.

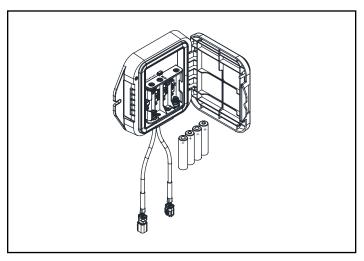


Install supplied lithium batteries. Close lid and secure by pressing on the lid tab until it snaps into place. Then tighten lid screw.

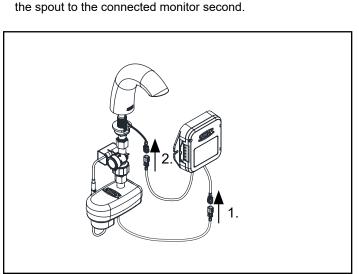


2. Loosen lid screw with supplied 3mm Allen wrench and Open the

4. Unplug the sensor connection from the spout to the electronic module by compress the clip on the connector and pull apart.

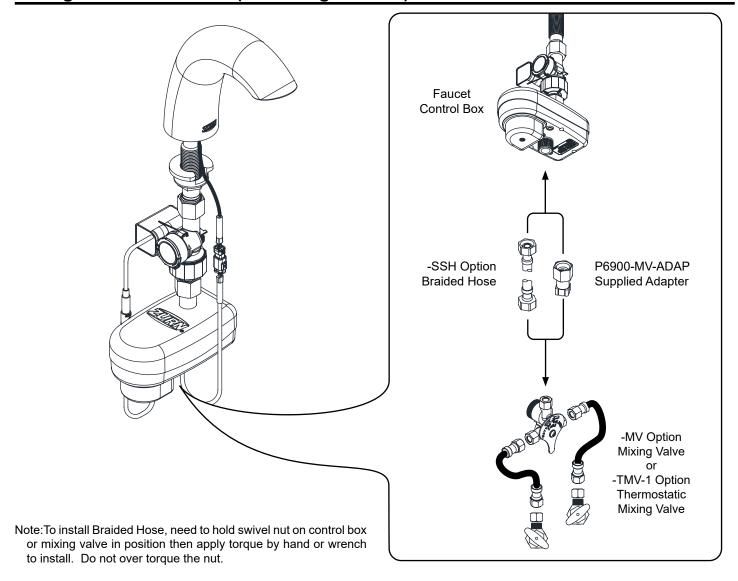


5. Connect the electronic module to the connected monitior first, and the spout to the connected monitor second



During initial installation, use the supplied lithium batteries. During subsequent battery changes, use either alkaline or lithium batteries; however, do not mix alkaline and lithium batteries together. During servicing or changing of batteries, wipe down monitor to ensure water does not enter the housing when the lid is opened.

Mixing Valve Installation (All Configurations)

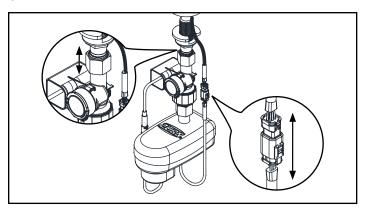


Spout Replacement

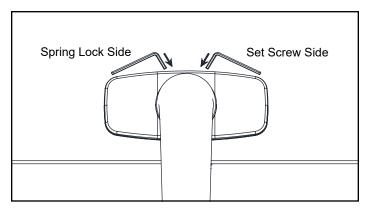
NOTE: To replace spout body, you must first turn water off, then remove spout with sensor cable.

- Before removing the spout, ensure to disconnect the sensor cable bebeath the deck, allowing the cable head to be pulled up through the deck.
- *Take care to press the locking mechanism before disconnecting sensor cable. PULLING APART WITHOUT PRESSING IN THE LOCK MAY DAMAGE THE SENSOR OR CONTROLLER CABLES.

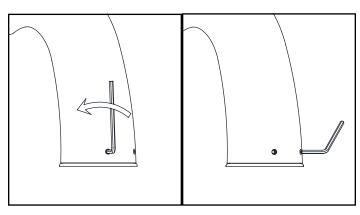
2. Note location of set screw and spring lock.



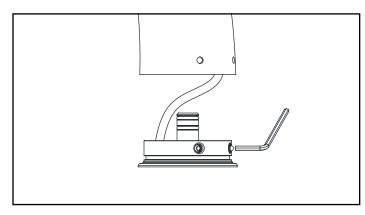
3. Use supplied 3/32" hex wrench to loosen set screw. Screw will retract into the base to eliminate loss. Using the same hex wrench, depress the ball detent to release spout from base.



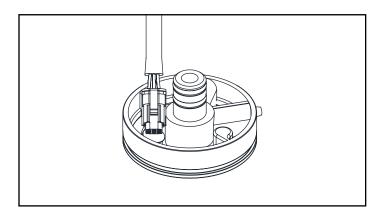
4. Lift spout and pull sensor cable through deck and base.

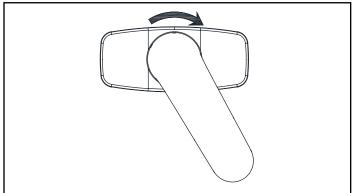


5. To reinstall faucet, first drop sensor cable of new spout through the front of the base. Lower spout onto base inserting base nipple into spout port.



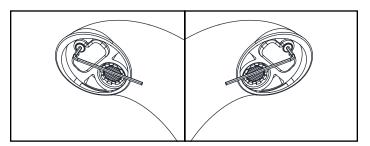
Align spout so that the ball detent is between the 2 holes. Press down and turn clockwise. Use hex wrench to back set screw out to secure spout.



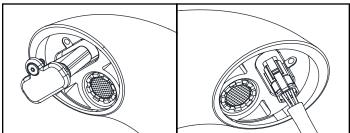


Sensor Assembly Replacement

 With spout disengaged, sensor assembly can now be removed by loosening the center screw with supplied M3 Allen wrench. With assembly removed, you can now install new assembly and reassemble your spout.



2. Loosening screw will cause sensor assembly to back out of spout body. It may be necessary to push cable from connector end to aid in sensor assembly removal. Firmly press into pocket and tighten screw. Sensor connector may need to be turned horizontally when first inserting into the spout.



Gateway Instruction (-W2)

Step 1. Request Gateway:

You can request your Ethernet or LTE gateway by visiting Zurn.com/plumbsmart-gateway-request

or call Zurn Customer Care at 1-844-987-6737

Step 2. Cabling, Powering and Connecting Your Device:

- Connect one end of the RJ45 Ethernet cable (supplied) to the gateway's Ethernet port and plug the cable's other end into the nearest wall port of the building's Ethernet network.
- 2. Connect the power supply to the power jack.
- 3. Wait for status LED to go from ON to double flash every second, the LoRa LED to turn ON solid, and the cell LED (if LTE enabled) to flash once every 3 seconds. Should take around 1-2 minutes depending on location. Your gateway is now ready to transmit data from your Zurn connected product.
- 4. Zurn Gateways have been set to DHCP by default. Please consult local IT support for possible additional access requirements for your network.

Step 3. Determining General Location for the Zurn Gateway:

- Select a location central to all devices to be connected to this gateway. Ideal mapping of Gateway to connected devices will resemble a wagon wheel.
- Place the gateway as high as possible, such as near the top of a wall.
- Avoid obstructions. Thick walls and reflective surfaces, such as metal, weaken the signal between the gateway and other devices.
- The LoRa antenna is an omni-directional antenna, but for best results, mount the device so the LoRa antenna is in a vertical position near the top of a wall. We recommend conducting a site survey to test the signal strength in different locations before you mount the device.

Step 4. Mounting the Zurn Gateway:

The device ships with a mounting bracket. You will also need:

- · Four #6 screws with anchors
- Screwdriver
- Drill
- 1. Determine where you want to mount the device.
- 2. Mark where you want the screws to go.
- 3. Drill holes for the screws and insert anchors.
- 4. Place the mounting bracket and secure it with screws.
- 5. Attach the device to the bracket and rotate to lock into place.

Register in plumbSMART (-W2)

NOTE: Instructions below are duplicated from registration card supplied with monitor

- Install Zurn Connected Product(s)
- 2. Install Zurn Gateway per the Gateway Instructions Manual
- 3. Request plumbSMART Administrator Account at 844-987-6737
- Zurn creates your Enterprise Account for you! (You will be required to identify your building location, number of floors, and number of rooms.)
- 5. Log in to plumbsmart.zurn.com
- 6. Register each Connected Product in plumbSMART (Watch How-To Videos to Get Started. Located in the support section inside the portal.)

LED Indicator Status & Trouble Shooting

LED Flashing Pattern	Causes	Recommended Course of action
Rapid Blinking Continui- ously	Low Battery	The batteries are low, and it is advisable to replace them before they deplete to a point where the faucet can no longer operate.
LED solid illumination	Bluetooth Mode Activated	To disable Bluetooth mode, activate sensor.
Illumination for 1 second	Normal Startup/Reset Initialization	Typically encountered during a new battery installation. If this issue persists, it may signal a reset problem with the valve; please reach out to customer support for assistance.

Problem	Possible Cause	Corrective Action
Faucet is non-responsive	Low Battery	Monitor the battery level and, if necessary, replace it. Take note of the correct polarity during replacement.
	Sensor Not Connected	Ensure that the connections of the Battery and Hydro Generator are properly joined, and with the water turned on, proceed to attach the sensor connector to the valve body.
	Water Supply not Turned on	Ensure that the water supply is turned on and is feeding into the inlet of the faucet.
	Electronic box connector cable has pins either bent or broken.	Check to see if To reset the valve, unplug and replug the sensor cable. Additionally, inspect if pins are missing, bent, or broken. If any issues are found, it indicates a need for the replacement of the electronic box. pins are missing, bent, or broken. If yes, then the electronic box needs to be replaced
	Sensor lens could have surface damage, scratches, or deposit build ups.	Inspect the sensor lens. May require cleaning with a damp cloth or spout/sensor replacement
	Orientation	Ensure that the front-facing IR sensor is not directed toward a mirror or any reflective surface. For downlooking sensors, perform a reset by resetting the sensor cable to restart both the sensor and valve then initialize a new calibration.
Faucet does not activate after initial installation	The protective film is an obstructing the lens.	Inspect whether the protective film has been removed from the lens. If not, please remove it.
Continuous flow	Electronic box connector cable has pins either bent or broken.	To reset the valve, unplug and replug the sensor cable. Additionally, inspect if pins are missing, bent, or broken. If any issues are found, it indicates a need for the replacement of the electronic box.
	Battery issue	Check battery levels and re-install batteries to reset valve.
Ghost Activation	Orientation	Ensure that the front-facing IR sensor is not directed toward a mirror or any reflective surface. For downlooking sensors, perform a reset by resetting the sensor cable to restart both the sensor and valve then initialize a new calibration.
Sensor faucet is leaking underneath the sink or counter	Mounting hardware is not sufficiently tightened (faucet shank, electronic box, supply hoses, etc).	Inspect and confirm that the nuts and joints are securely tight- ened from the supply stop all the way to the faucet shank.
	The gasket in the valve box nut, where it assembles to the faucet shank, is missing.	Verify that the water supply stops are shut off. Examine and confirm the installation of the gasket, ensuring it is undamaged. If the gasket is not installed, proceed to install it. In case of any damage, replace the gasket with a new one.

For further assistance with troubleshooting visit http://www.zurn.com

Trouble Shooting: LoRa Monitor (-W2)

Corrective Action

Step 1

Verify LoRa Monitor electronics are plugged in / Verify batteries installed in LoRa Monitor electronics and have sufficient charge (whichever applies). Install new batteries, as needed. Alert on product's page in plumbSMART should clear within 1 hour or on next faucet activation. (Refresh web page by clicking on reload icon in the browser to clear the alert.)

Step 2

If problem still present, verify gateway is within range of LoRa Monitor and functioning (see Gateway Troubleshooting section)

Step 3

If problem is still present, verify plumbSMART subscription status on product page's Details tab is listed as "Activated"

NETWORK: Senet

SUBSCRIPTION STATUS: Activated

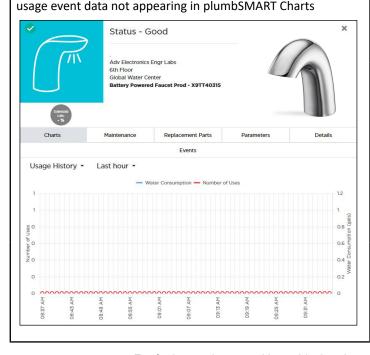
LAST HEARD FROM: 07/14/2020, 04:29 PM CDT

If listed as "Deactivated", contact Zurn Customer Service at 1.855.ONE.ZURN (1.855.663.9876) for assistance.

"Status – Good" posted in plumbSMART and faucet not actuating



"Status – Good" posted in plumbSMART and faucet actuates but



Step 1

Verify LoRa Monitor's cables are connected to IR sensor and Faucet actuator electronics. Restore proper electrical connection, as needed.

Step 2

Test activate the faucet.

If problem persists, see Faucet Troubleshooting section in this guide for other steps.

Step 1

Verify gateway is powered and LoRa Status LED is ON. If not, apply power per Zurn Gateway Installation Guide or see Gateway Troubleshooting section in this guide for other steps.

Step 2

If problem still present, verify plumbSMART subscription status on product page's Details tab listed as "Activated"

NETWORK: Senet

SUBSCRIPTION STATUS: Activated

LAST HEARD FROM: 07/14/2020, 04:29 PM CDT

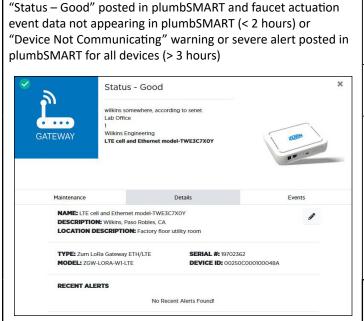
If listed as "Deactivated", contact Zurn Customer Service at 1.855.ONE.ZURN (1.855.663.9876) for assistance.

Step 3

If problem still present, the LoRa Monitor electronics may be faulty. Contact Zurn Customer Service at 1.855.ONE.ZURN (1.855.663.9876) for assistance with additional troubleshooting steps and, if needed, unit replacement.

For further assistance with troubleshooting, visit https://plumbsmart.zurn.com/app/training

Trouble Shooting: Gateway (-W2)



Problem

Corrective Action

Step 1

Verify gateway Status LED flashes twice every 2 seconds. If LED is OFF or ON solid, power cycle the gateway and wait for no more than 5 minutes for unit to initialize and connect.

Step 2

After initialization is finished, LORA LED should turn ON solid within an additional minute.

Step 3

If LORA LED does not turn ON solid and ethernet cable connected, contact facility IT administrator to modify port rules to allow Zurn gateway to access the internet via local router.

If gateway model is ETH/LTE, visually verify SIM card is installed in designated slot on the side of gateway. If unit has a SIM card, then disconnect ethernet cable and power cycle the gateway and wait for unit to initialize and connect. LORA LED should turn ON solid after initialization.

Step 4

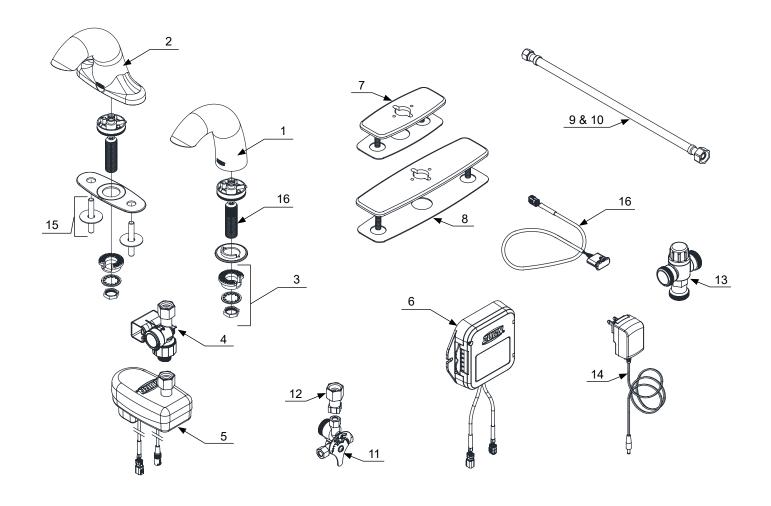
If problem still present, move gateway closer to LoRa monitors and/or verify gateway mounting, orientation and connections comply with requirements listed in Zurn Gateway Installation Guide.

Contact Zurn Customer Service at 1.855.ONE.ZURN (1.855.663.9876) for assistance with additional troubleshooting steps.

For further assistance with troubleshooting, visit https://plumbsmart.zurn.com/app/training

Care and Cleaning Instructions (All Configurations)

- Do not use any abrasive or chemical cleaners to clean the faucets. Do not use any cleaners with an acid base.
- · If abrasives or chemicals are used it can lead to dulling of luster, attacking of chrome plating or decorative finishes.
- ONLY use mildly warm soapy water, and then wipe the device dry with a clean/soft towel or cloth.
- Upon cleaning other areas of the restroom be sure the sensor lenses are protected from other cleaning chemicals/solvents to prevent potential damages to the sensor and/or electronics.



Description	Product No.
Item 1: ZG6950 Spout Base Assembly with Sensor	P6950-XL-S-1
Item 2: ZG6922 Spout Base Assembly with Sensor	P6955-XL-S-1
Item 3: Mounting Kit	P6900-43
Item 4: Hydrogenerator	P6900-HYD
Item 5: Ceramic valve Control Box	PG6900-B-L
Item 6: Smart Connected Faucet Retrofit Kit	P6900-RK-W2
Item 7: 4" Cast Cover Plate w/Gasket	P6900-CP4
Item 8: 8" Cast Cover Plate w/Gasket	P6900-CP8

Description	Product No.
Item 9: Single Stainless Supply Hose (XL)	P6900-SSH
Item 10: Dual Stainless Supply Hose (XL)	P6900-SSH-2
Item 11: Mixing Valve with Filter	P6900-MV-XL
Item 12: Composite Mixing Valve Adapter	P6900-MV-ADAP
Item 13: Thermostatic Mixing Valve	P6900-TMV-1
Item 14: Optional Plug-in Power Converter	P6900-ACA
Item 15: Widespread Mounting Kit	P6900-GB
Item 16: Spout Shank Base	P6900-XL-B
Item 17: ZG6955 Sensor Assembly	P6950-XL-EL

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