



# INSTALLATION GUIDE

## Hands-Free Faucet with Wall Spout

Nov 2017

Please take a few minutes to get familiar with the overall process to help minimize difficulties and expedite a successful installation.

This faucet uses the same principles as electromagnetism, turning the spout itself into the sensor. The key to this faucet working flawlessly is to isolate the spout from any metals that will carry the magnetic field or anything that may carry electric current and interfere with its operation.

Proper installation requires the ability to follow directions. We will focus on the electronics in these instructions because we assume that you are a trained plumber.

Prior to hooking up the plumbing and electrical components, at least the spout's nipple should be installed.

**Step 1:** Attach water supply hoses from the water stops to the provided mixing valve. This valve is used to adjust water temperature, so should be accessible.



**Step 2:** The grey Sensor Module should be supplied with the output of the mixing valve. (Make sure that the water flow is going in the direction of the arrows on the sensor module.) The straight black wire is permanently attached, and cannot be cut or extended. This limits you to installing it 12" from the spout. The dial on the side should be set fully to the "auto" position.





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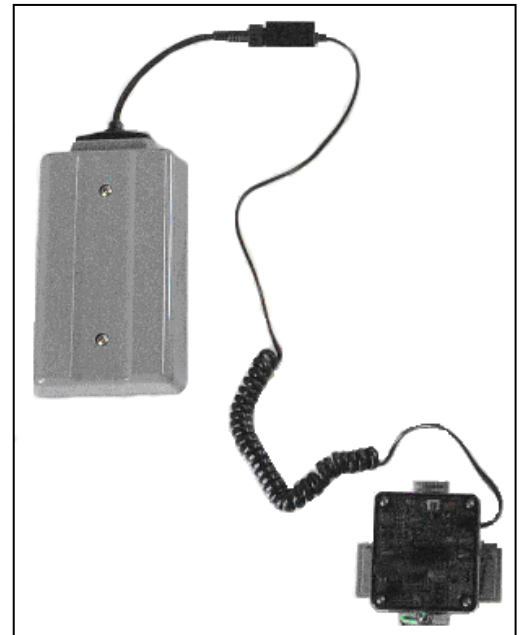
**Step 3:** Install the 1" hose clamp with terminal connector onto a drop ear elbow, making sure that there is a tight connection between the clamp and the metal.  
We recommend an elbow similar to this one, with a PEX inlet and 1/2" FIP outlet.



**Step 4:** Supply the spout's plumbing with the output of the Sensor Module, making sure that there is at least 12" of non-metallic supply line between the Sensor Module and the Spout.

**Step 5:** Mount the supplied Battery Pack or AC Adapter. Mounting holes inside are exposed by opening the battery pack. It can also be mounted using supplied double-sided tape. Do not connect it to Sensor Module at this time.

**Step 6:** Attach the straight black wire from the Sensor Module to the terminal on the hose clamp from step #4  
**Important:** Use **only** the supplied wire connection. Do **not** cut or attempt to splice wire for a longer length. This will cause the unit to function improperly. System has a limited range determined by the wire lengths.



**Step 7:** Ground the Sensor Module to the earth with one green and yellow wire. Attach the hose clamp to your earth ground, and the other end to a brass tab on the grey sensor box.  
In most cases, your cold water supply line will be copper and go into the ground. If this is not the case, a grounding rod or wire is necessary for proper function.

**Step 8:** Connect the Sensor Module to your power supply last.  
(If using the DC battery pack, install 4 "D" alkaline batteries)

You will hear the box click, then water may turn on then off while the system calibrates. Wait at least 20 seconds before testing.

If you have made your connections correctly, the LED light will blink once every 8 seconds when water is not running.



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### Troubleshooting: Common installation errors preventing the system from working properly.

If the light blinks every four seconds when water is not running, the circuit is not complete and a better ground to earth is necessary.

If there is metal (wiring, studs, plumbing, mirror) within 6" of the spout, it will cause the unit to function improperly.

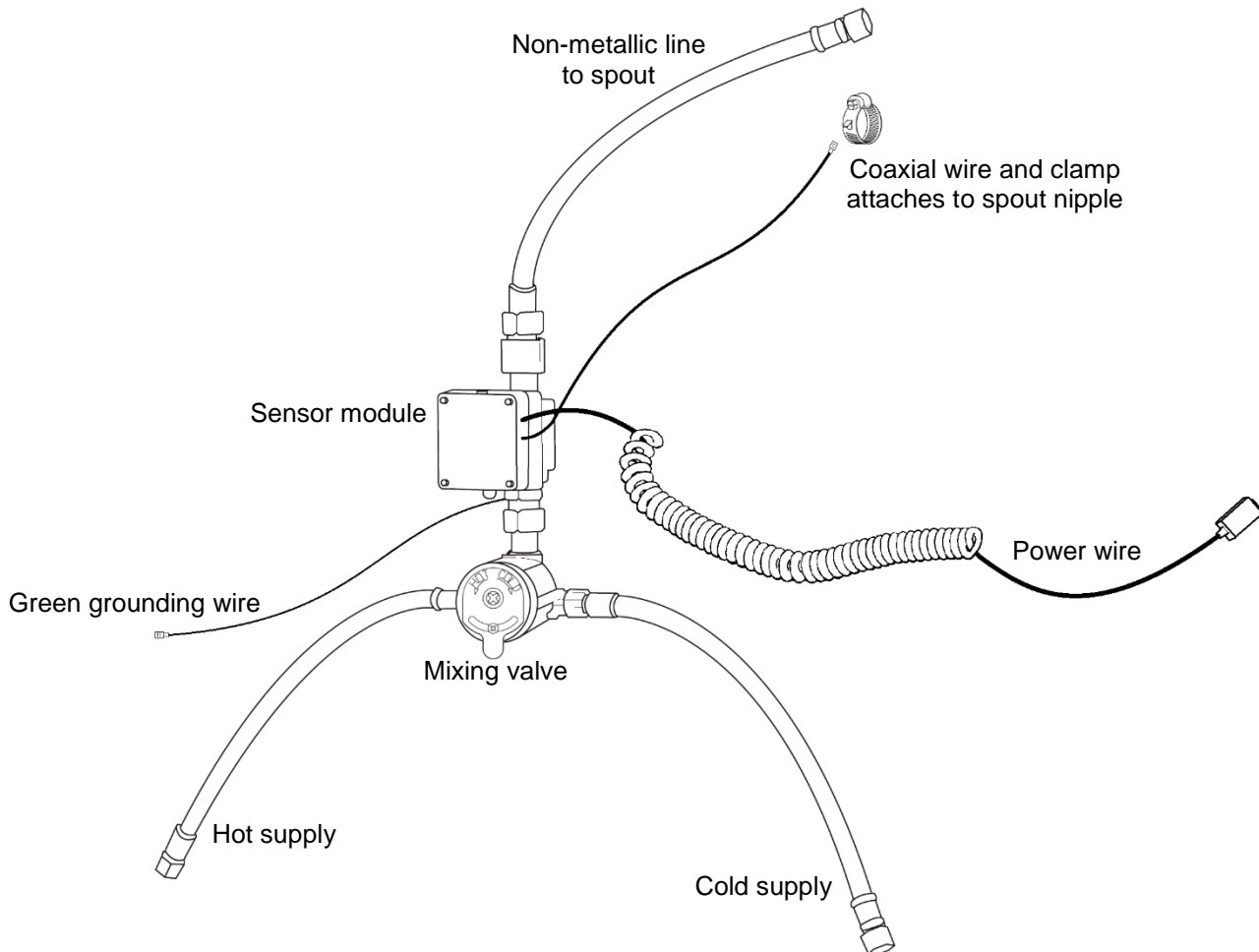
Where metal sinks are used, the supplied drain ground connector may be necessary.

Double check that the supply line to the spout is not metallic.

If the LED light blinks nonstop, the system is not connected correctly. Start over.

Unplugging and plugging in the power supply will reset the system and allow for it to recalibrate.

On the side of the Sensor Module, there is a black dial with the words "Open" and "Auto" written above/below. "Auto" is the correct position for normal usage. "Open" allows for flushing of the line.

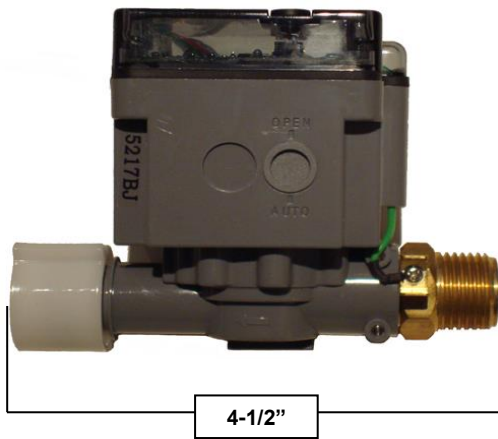




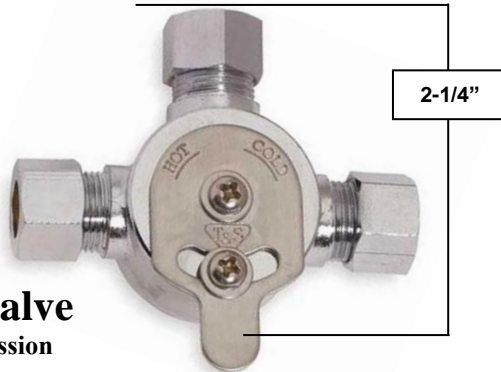
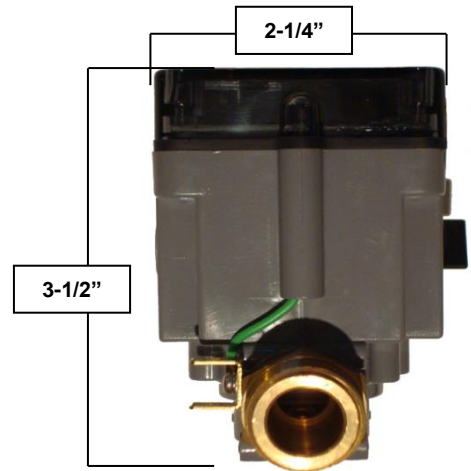
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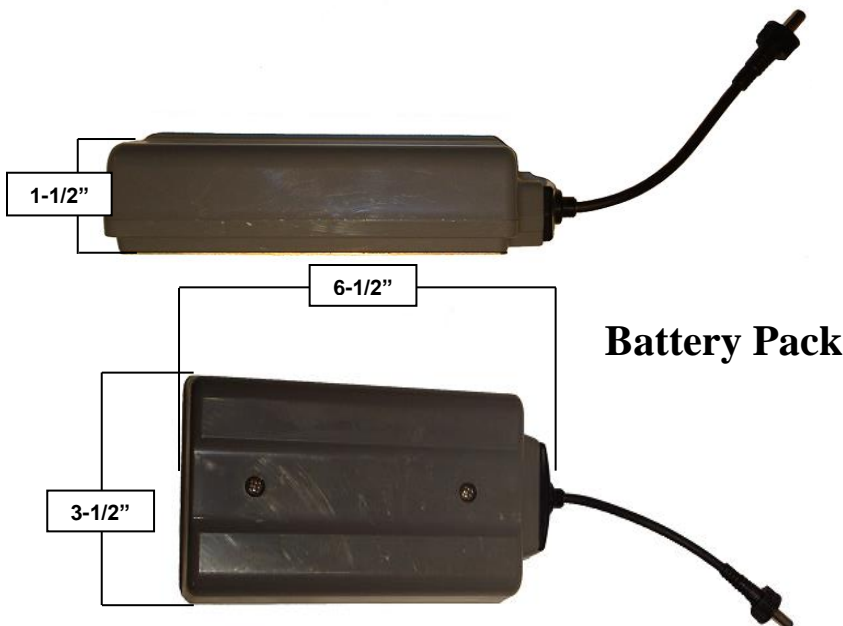
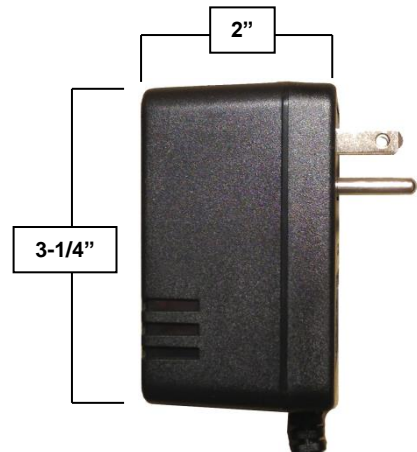
### Sensor Module



### Mixing valve

3/8" compression fittings

### Optional AC Adapter



### Battery Pack

