PowerX Water

WELCOME TO THE POWERX FAMILY

Join us on our mission to save energy, water and the planet.
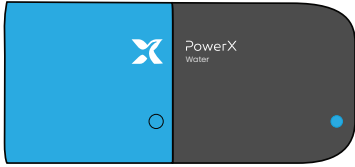

community.powerx.co

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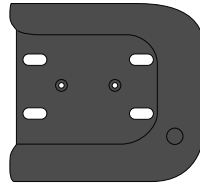# What's included

PowerX Water

PowerX Hub

PowerX Ultrasonic Sensor
and strap nut

Data transmission cable
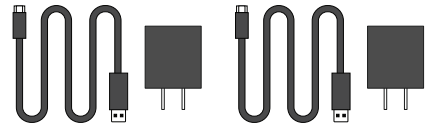
PowerX Mount

2 USB wall adapter and power cable

4 Mounting screws

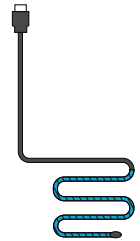Zip Ties

Optional
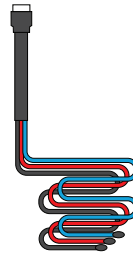
Set of temperature
sensors (Black, Blue,
and Red)

Water leak
detection cable

Download the PowerX App & connect Hub

1.1 Plug in the PowerX Hub

Connect the PowerX Hub to the wall adapter and cable, and plug it in an electrical outlet.
The Hub's LED light will start to blink.
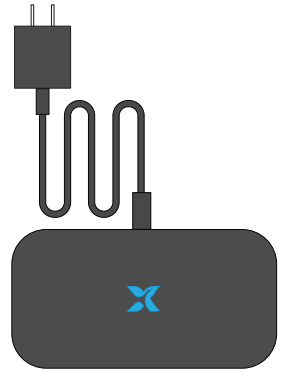
1.2 Download the PowerX App

Download and open the PowerX App from your device's app store and follow the on-screen instructions.

Get the PowerX App

Available on the
App Store

GET IT ON
Google Play

www.powerx.co/app

1.3 Scan Hub's QR code

Scan your PowerX Hub's QR code, or type in the Hub's ID manually. You can find the Hub's ID on the bottom of the unit.

Scan QR code

SCAN QR CODE

Enter code | Validate
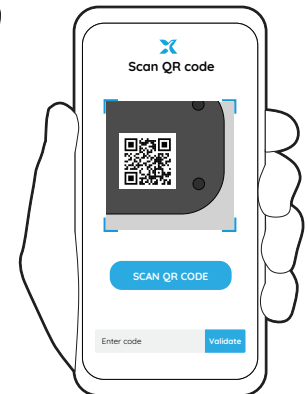
Connect to Wifi and add PowerX Water

2.1 Connect to Wifi

Choose your local Wifi network, select "Connect", and enter your Wifi credentials.
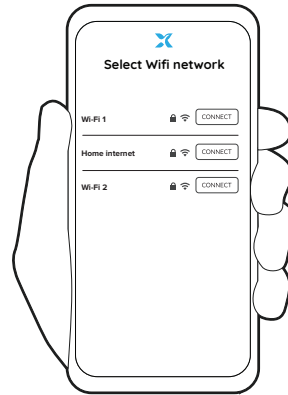
Your device is successfully connected if you see the message "Successfully added Hub" in the mobile app, and the blinking blue light on the device changes to remain ON steadily.

Select Wifi network

Wi-Fi 1	🔒 📶 CONNECT
Home internet	🔒 📶 CONNECT
Wi-Fi 2	🔒 📶 CONNECT

Successfully added Hub

2.2 Add PowerX Water Sensor

In the PowerX App select "Add device".

Then scan the QR code on the bottom of the PowerX Water sensor or type in the sensor's ID manually.

PowerX

ADD DEVICE

Scan QR code

SCAN QR CODE

Enter code | Validate

If you need further help please go to **help.powerx.co**

Step by step guide to installing
PowerX Water and Ultrasonic Sensor
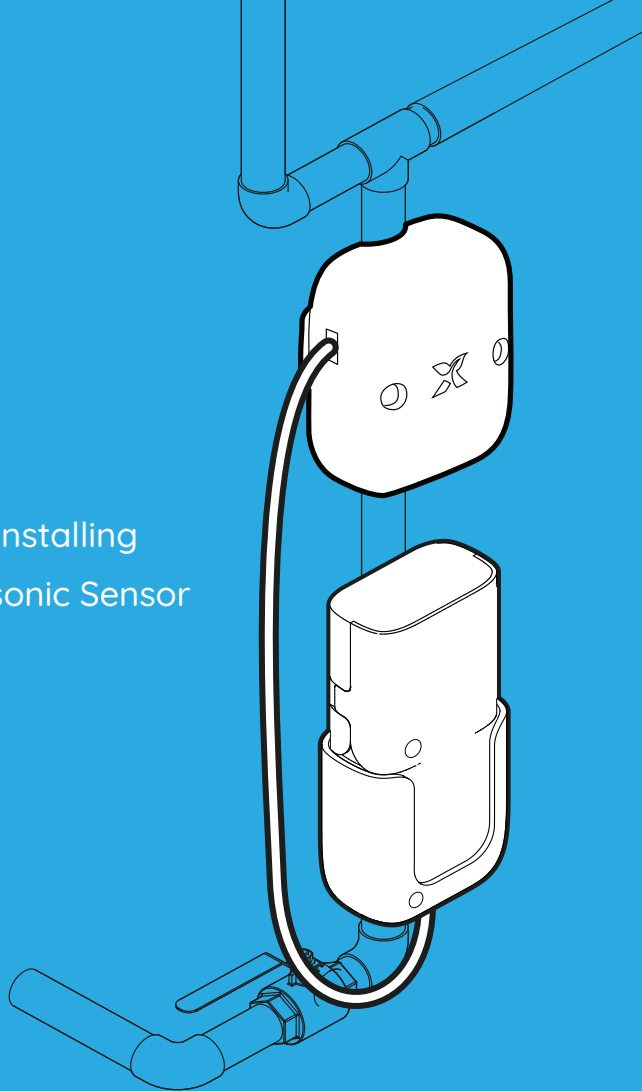
3 Mount PowerX Water

Mount PowerX Water using the PowerX Mount, on the pipe or on the wall near the measuring space. Use the included screws or zip ties according to your selection.

For **option 1**, PowerX Water must be installed between the main valve and the first junction where the pipe splits into branches.

option 1

option 2
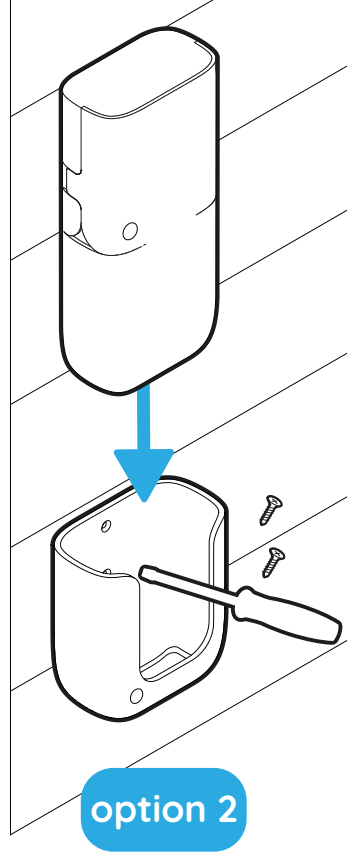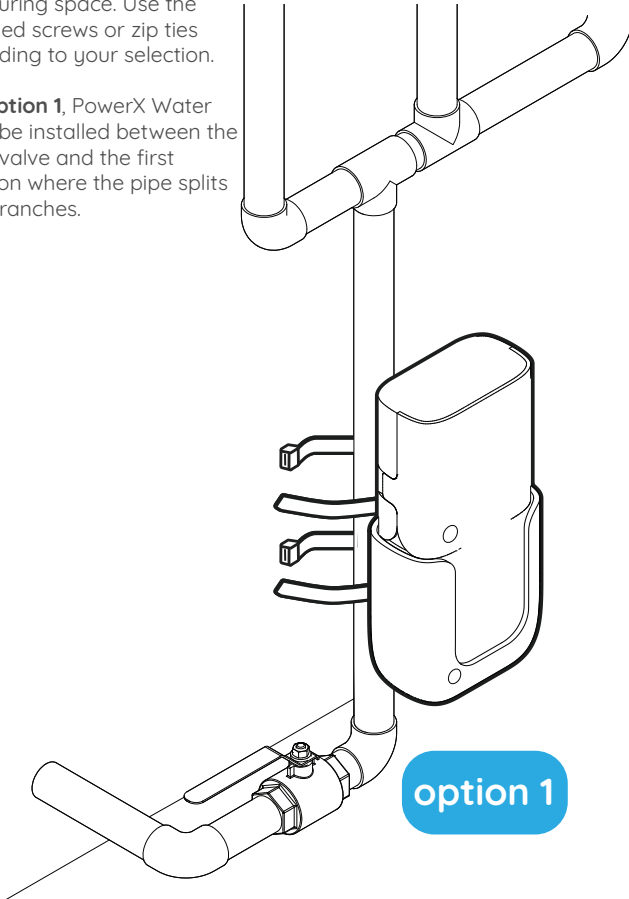
4 Install PowerX Ultrasonic Sensor

The section of the pipe where the PowerX Ultrasonic Sensor will be installed has to be clean, free of rust, scale, moisture, paint, or other coatings.

> **!** Make sure to clean the pipe well before placing the Ultrasonic Sensor. You can use an alcohol wipe or emery cloth to remove any rust or dirt.

Strap the PowerX Ultrasonic Sensor to the clean pipe section using the included strap nut and screws. Be sure that the PowerX Ultrasonic Sensor is close enough to the PowerX Water for the data transmission cable to reach.

Then connect PowerX Water to the PowerX Ultrasonic Sensor using the data transmission cable.

5 Add water leak detection cable (optional)

If your kit includes the water leak detection cable, attach it to PowerX Water and place the blue section in a location where any potential leak points exist.

water leak detection cable
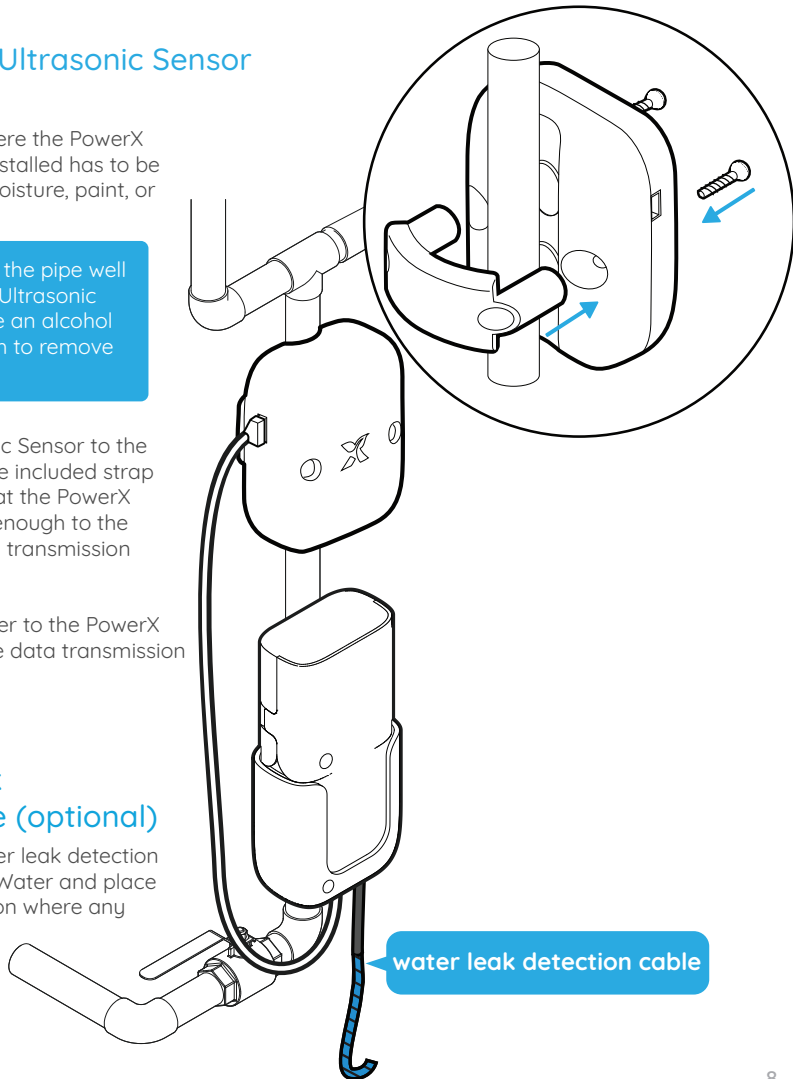
Ensure PowerX Water is powered with 4AA batteries or plugged with the provided Micro USB connector according to your selection.
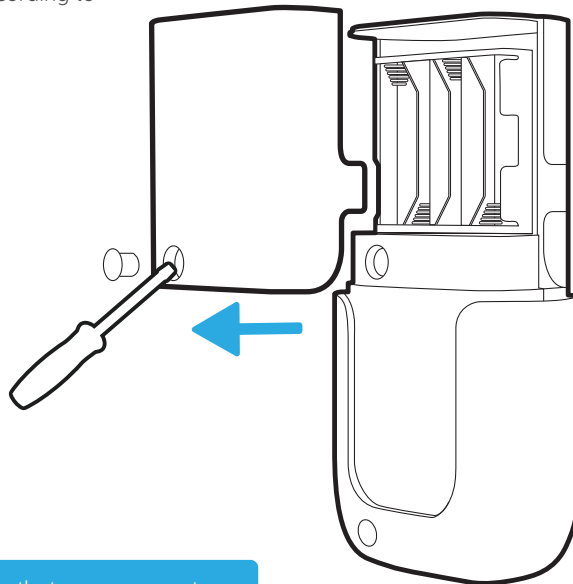
option 1

AA batteries x4

option 2

! Please note that measurement frequency and precision may be reduced when powered by battery to increase battery lifetime.

Micro USB connector

7 Calibrate PowerX Water

7.1 Calibration light
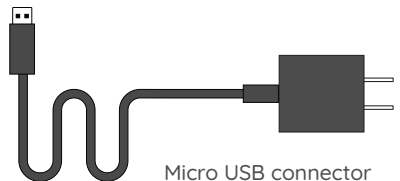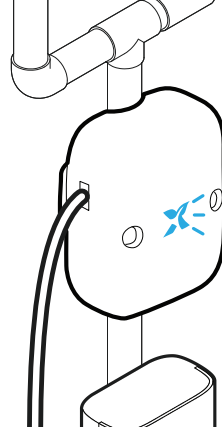
Calibrate the PowerX Ultrasonic Sensor by moving it around the pipe until the front light is stable. The faster the front light blinks, the closer you get to a stable light and good calibration.

7.2 Measure water flow

To calibrate the water flow first ensure all running water for the household is turned OFF.

Next, select "Water Sensor Calibration" in the App and prepare to fill a measuring container with water.

In the app, input the volume of the container and record the time it takes for the container to fill with the in-app stopwatch.

7.3 Connected

All done!
PowerX App will notify you of successful calibration. Your PowerX Water is ready to use.

✕ Connectors
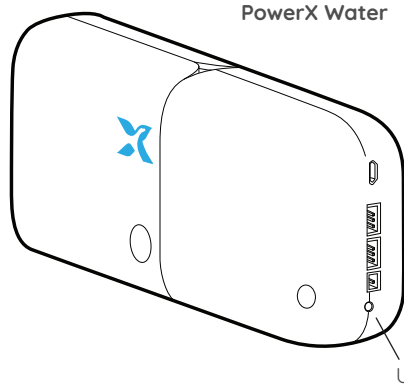
PowerX Water

Micro USB connector

Set of temperature sensors
(Black, Blue, and Red)

Data transmission cable

Water leak detection cable
(optional)

User button

PowerX Hub

PowerX Ultrasonic Sensor

Data
transmission
cable

Micro USB connector

LAN connection
(optional)

User button

Product specifications

Note: Access to the water inlet supply, and at least 6in of clean, straight pipe are required for installation.
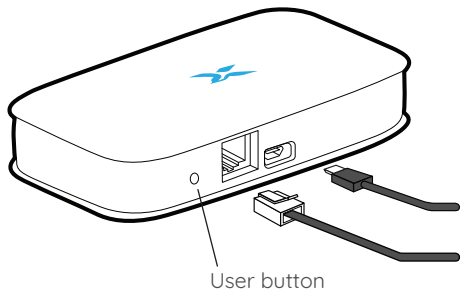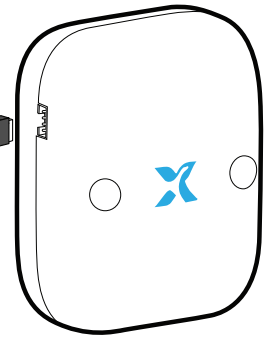
Hardware			
Dimensions (LxWxH)	PowerX Water	7" x 3.1" x 1.7"
	PowerX Ultrasonic Sensor	3.9" x 3.1" x 2.3"
	PowerX Hub	5.2" x 2.8" x 1.2"
Data transmission cable length		15.7"
Weight	PowerX Water	0.5 lb
	PowerX Ultrasonic Sensor	0.5 lb
	PowerX Hub	0.3 lb
Pipe compatibility		3/4" & 1" CTS Copper (type M & L), CPVC & PEX
Wireless features	PowerX Water	LoRa
	PowerX Hub	802.1/b/g/n - 2.4GHz
Indoor/Outdoor use		Indoor only

Software		
Device requirements	Requires iOS 9.0 and up, or Android 6.0 and up.
PowerX interface	PowerX App: Requires PowerX account and acceptance of the terms of service found at www.powerx.co

Other parameters	
Operating temperature	32 - 154°F
Operating Relative Humidity (RH)	<90%
Operating elevation	<6560 Feet
Waterproof	No (IPX0)
Warranty	1-year limited warranty

⊗ Disclaimer

PowerX Water and PowerX Ultrasonic Sensor fall under the definition of permitted power monitoring equipment given that:

(i) it's identified as a field-installable accessory, and

(ii) the total area of conductors and equipment at any cross-section of the wiring space does not exceed 75 percent of the cross-sectional area of that space, as per section 312.8(B) of the 2017 National Electrical Code (NEC) regarding Power Monitoring Equipment.

The PowerX Smart Suite contains FCC ID:

15.247:2015
15.109:2015
15.107:2015

This device has been tested and found compliant 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 complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Caution: Any changes or modifications not expressly approved by PowerX void the user's authority to operate the equipment.

To view patents, get answers to questions or see the latest versions of our user manual please visit **help.powerx.co**

PowerX Suite

PowerX is most effective as a Suite, including
Water, Electricity and Water Heating
measurement. We strongly recommend
installing the full Suite for highest efficiency
and optimization.

PowerX