

Water Hero®

Conserve. Protect. Save.

**INSTALLATION AND OPERATION
MANUAL**

K-100

Water Hero K-100 Components



Main Controller



Flow Sensor



Sensor Cable
[6 foot length]



5V Power Supply
[6 foot length]

Warning

Water Hero K-100 is secured to an existing water meter and has been tested to function with industry leading brands and models.

- If attaching to a utility meter, ensure that you conforming with applicable local rules and regulations
- Do not open the Water Hero Main Controller or Flow Sensor. If you have trouble, contact Water Hero support
- Install the Water Hero K-100 indoors, where it will not be exposed to direct sunlight, water or extremely low or high temperatures. No exposure to water. RH < 90%
- Flow readings displayed by the Water Hero K-100 are only as accurate as the existing water meter it is secured to. This may inhibit detection of low flows (e.g. less than ¼ gal per min). Accuracy is typically within 10%

Terms & Conditions

All Water Hero terms and conditions, privacy policies and warranty policies can be found on the Water Hero website

www.waterheroinc.com

Contact us

For installation questions, reach out to us at:

support@waterheroinc.com

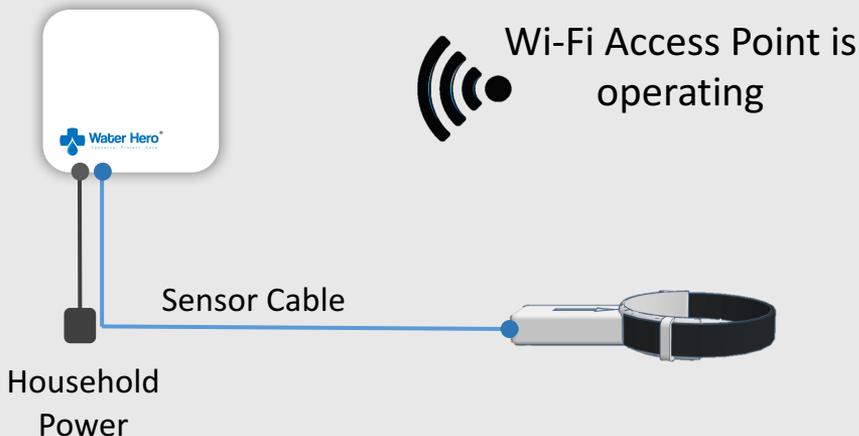


Start-up Guide

K-100

Connect your Water Hero

1. Place Water Hero near desired installation site
2. Connect Sensor Cable from Main Controller to Flow Sensor
3. Ensure that your Wi-Fi Access Point is on and operating
4. Plug Power Supply into Main Controller and then into outlet



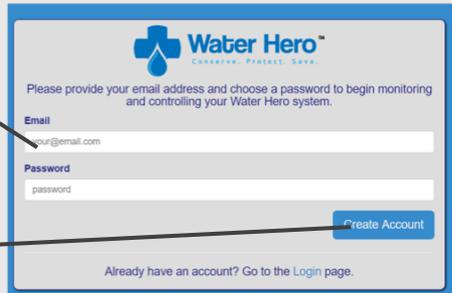
Create a Water Hero Account

1. Using your device (i.e. computer, laptop, or mobile device), open a web browser. Enter URL my.waterhero.com and select “Create an account”



The screenshot shows the Water Hero login page. At the top is the Water Hero logo with the tagline 'CONSERVE. PROTECT. SAVE.' Below the logo is the text 'Please log in to begin monitoring and controlling your Water Hero system.' There are two input fields: 'Email' with the placeholder 'your@email.com' and 'Password' with the placeholder 'password'. A blue 'Login' button is on the right. At the bottom, there is a link: 'New customer? Create an account to get started.'

2. Enter your e-mail address and desired password. Remember your account e-mail and password



The screenshot shows the Water Hero account creation page. At the top is the Water Hero logo with the tagline 'CONSERVE. PROTECT. SAVE.' Below the logo is the text 'Please provide your email address and choose a password to begin monitoring and controlling your Water Hero system.' There are two input fields: 'Email' with the placeholder 'your@email.com' and 'Password' with the placeholder 'password'. A blue 'Create Account' button is on the right. At the bottom, there is a link: 'Already have an account? Go to the Login page.'

3. Select “Create Account”

Access the Device Configuration page

1. Turn the Main Controller to its side; ensure the yellow light is on* and the green light is blinking



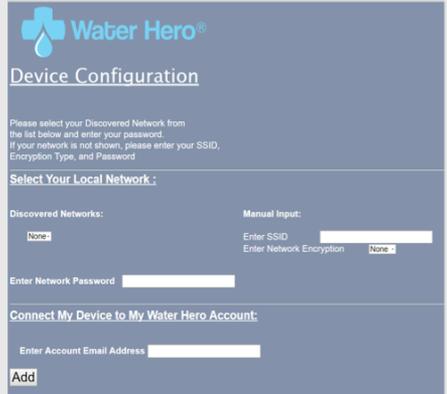
2. Connect your device (e.g. laptop, smart phone) to the “Water Hero AP” network
3. Open an internet browser (e.g. Internet Explorer, Chrome) and enter URL “http://192.168.1.1” to be directed to the Device Configuration page

The screenshot shows the 'Device Configuration' page for Water Hero. It features a blue header with the Water Hero logo and title. Below the title, there are instructions: 'Please select your Discovered Network from the list below and enter your password. If your network is not shown, please enter your SSID, Encryption Type, and Password.' The page is divided into sections: 'Select Your Local Network:', 'Discovered Networks:' (with a 'None' dropdown), 'Manual Input:' (with fields for 'Enter SSID', 'Enter Network Encryption', and a 'None' dropdown), 'Enter Network Password' (with a text input field), and 'Connect My Device to My Water Hero Account:' (with an 'Enter Account Email Address' field and an 'Add' button).

*If Yellow light is not on, perform a Network Reset, P. 20 of manual

Enter Wi-Fi Network Information

1. Click the drop down menu under “Discovered Networks”. If available, select the (SSID) Wi-Fi Network that you’d like Water Hero to connect with. Next to each discovered network is an indication of signal strength - the closer to zero, the stronger the signal. If your network is not shown select “None” and manually input your SSID and web encryption (on your router)
2. Enter your Wi-Fi network password
3. Enter the account e-mail address (from P. 5)
4. Once all information is entered, press “Add”



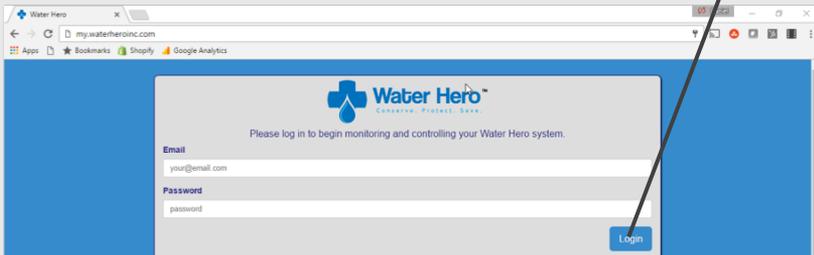
The screenshot shows the 'Device Configuration' screen for Water Hero. At the top left is the Water Hero logo. Below it is the title 'Device Configuration'. A message states: 'Please select your Discovered Network from the list below and enter your password. If your network is not shown, please enter your SSID, Encryption Type, and Password.' Below this is a section titled 'Select Your Local Network :'. It is divided into two columns: 'Discovered Networks:' and 'Manual Input:'. Under 'Discovered Networks:', there is a dropdown menu currently set to 'None'. Under 'Manual Input:', there are three input fields: 'Enter SSID' (with a text box), 'Enter Network Encryption' (with a dropdown menu set to 'None'), and 'Enter Network Password' (with a text box). Below these fields is a section titled 'Connect My Device to My Water Hero Account:' with an input field for 'Enter Account Email Address' and an 'Add' button at the bottom left.

Note: Text Entry Fields are sensitive to spelling, capitals and spaces

Verify Water Hero Connection

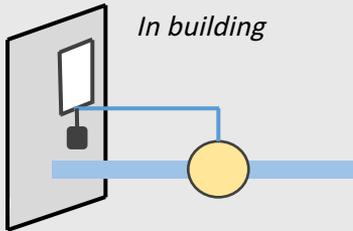


1. Upon successful connection, red light will blink, yellow light will blink and then green light will remain blinking*
2. Open a browser and enter URL my.waterheroinc.com
3. Enter account username and password and press login to see your device online



*If green light not blinking, conduct Network Reset on P. 20 of manual

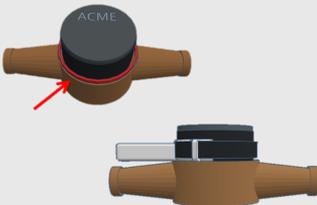
Secure Flow Sensor to existing meter



First, locate your water meter, typically where your main water supply enters the building

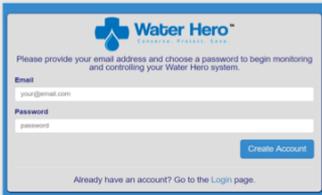


Then, secure Flow Sensor around water meter's Register. Register is typically black and fastened to the top of the metal water meter. Ensure the Water Hero Logo is facing up



Finally, adjust position of Flow Sensor so the bottom of the Flow Sensor rests against the top of the metal water meter

Access Device Calibration Setting



Water Hero™
WATERHERO.COM

Please provide your email address and choose a password to begin monitoring and controlling your Water Hero system.

Email
your@email.com

Password
password

Create Account

Already have an account? Go to the Login page.

Login to your account at my.waterhero.com



Device	Status	Volume	Temp
WI Base 6C C48E97942C	online	0.00 gallons	85°F
WI Base 6C C48E979479	online	0.00 of	85.3°C
WI Base 6 C48E979375	online	423.80 gallons	85°F
WI Base 7 C48E979316	online	170.30 gallons	85°F
WI Base 6 C48E97934F	online	0.00 gallons	85°F
WI Base 6 C48E97934F	online	0.00 of	85.3°C
WI Base 6 F48E97934F	online	3.70 gallons	85°F
WI Base 6 F48E97934F	online	1.07 of	24.1°C
WI Demo 1 C48E97934F	online	0.20 gallons	70°F
WI Demo 1 C48E97934F	online	1.07 of	48.7°C
WI Demo 2 C48E97934F	online	316.93 gallons	70°F
WI Demo 2 C48E97934F	online	0.27 of	48.7°C

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Select the device that you would like to calibrate from the “My Devices” list



Device Settings

Device: WI Base 6C
Volume: 0.00 gallons
Temp: 85°F

Calibrate Now

Reset

Cancel

OK

Apply

Water Hero

Select “Settings” from top menu; scroll down until you see the calibration section

Calibrate Water Hero*

- Select a container of a known volume (e.g. milk jug, water bottle)
- Ensure that no water is being used beyond the meter
- Press start and begin filling the container selected above with a fully open faucet
- As the water level reaches the target, decrease the flow so that you can stop it precisely when your target quantity is reached
- Input the quantity of water added to the container in the “actual gallons field” and press Recalibrate



The screenshot shows a web interface titled "Calibrate Meter". At the top is a blue "Start" button. Below it are four input fields: "elapsed", "rotations", "rotations per gallon", and "gallons". A horizontal line separates these from a text block: "If the reported water flow is not correct, you can change the calibration for your meter by entering the actual water usage for this time period:". Below this is a yellow input field labeled "actual gallons" and a green "Recalibrate" button at the bottom.

*Suggested for buildings where it can be ensured that no other water flowing (e.g. single family home) In other cases, alternate approach is on p. 21



Features & Functionality

K-100



My Devices

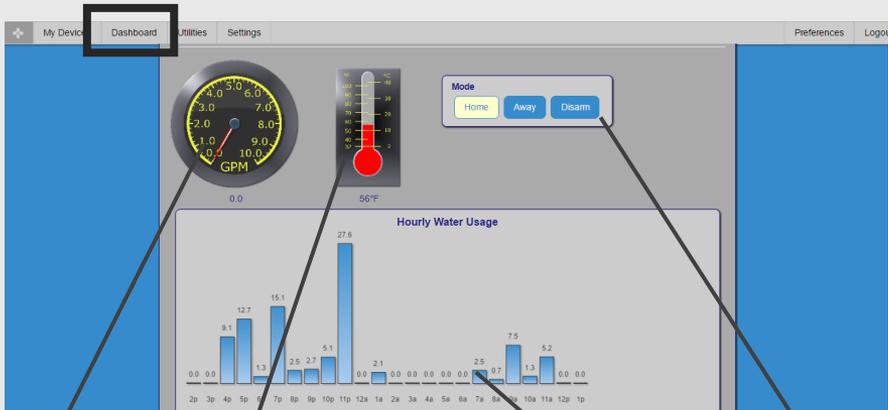
My Devices	Dashboard	Utilities	Settings	Preferences	Logout
WH Beta 20 C4BE84750C90	online	3766.9 gallons 503.6 cf	64°F 18°C		
WH Beta 21 F4B85E4D435B	online	2836.8 gallons 379.2 cf	60°F 16°C		
WH Beta 22 C4BE84750B03	offline	0.0 gallons 0.0 cf	---		
WH Beta 23 C4BE8475F978	online	355.5 gallons 47.5 cf	46°F 8°C		
WH Beta 24 F4B85E4D47A3	offline	0.0 gallons 0.0 cf	71°F 22°C		
WH Beta 25 F4B85E4D4795	online	0.3 gallons 0.0 cf	69°F 21°C		
WH Beta 26 F4B85EC9EA30	online	3443.2 gallons 460.3 cf	62°F 17°C		
WH Beta 27 C4BE847526BB	online	1506.6 gallons 201.4 cf	75°F 24°C		
WH Beta 28 F4B85E4D467F	offline	0.0 gallons 0.0 cf	56°F 13°C		
WH Beta 29	online	1802.6 gallons	58°F		

Login to your account at my.waterheroinc.com and you will be presented the “My Devices” tab. This tab shows all Water Hero devices registered to the account. It also shows total water flow amount for each device listed and the ambient temperature at the Flow Sensor.

Click on the Device Name to access a dashboard that shows real-time information



Dashboard



Gauge displays real-time flow volume

Ambient air temperature at the Water Hero Flow Sensor

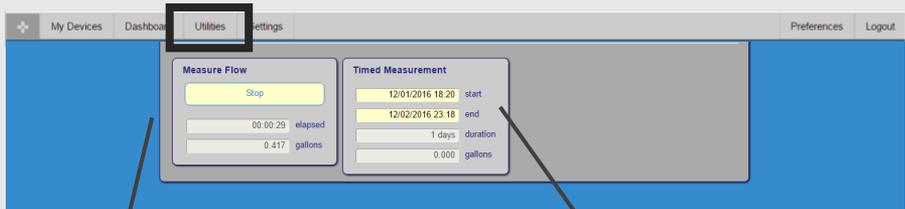
Hourly plot of water consumption

Leak detection mode selector*

*Home/away mode alerts can be adjusted in Settings tab



Utilities



“Measure Flow” is a stopwatch feature that allows user to view the amount of water that has been used over a period of time

“Timed Measurement” allows user to find out how much water was used during a specific period of time



Settings

Home and Away Mode panels allow user to set limits after which alerts are triggered

Temperature alerts panel allow user to set low and high temperature warnings. Temperature extremes could indicate frozen pipes or a fire

Notifications panel allows user to select method by which warnings and alerts are sent



Preferences

A screenshot of a web application's 'Preferences' page. The page has a blue header with navigation links: 'My Devices', 'Dashboard', 'Utilities', 'Settings', 'Preferences', and 'Logout'. The 'Preferences' section is highlighted with a black box. Below the header, there is a 'Preferences' panel with a light gray background. It shows the user is logged in as 'dsterling@watertheroinc.com'. There are input fields for 'Name' and 'Phone', both highlighted in yellow. Below these are two sections: 'Water Units' with radio buttons for 'Gallons' (selected) and 'Liters', and 'Temperature Units' with radio buttons for '°F' (selected) and '°C'. A blue 'Save' button is located to the right of the 'Water Units' section. Two black lines point from the text below to the 'Name' and 'Phone' fields and the 'Water Units' and 'Temperature Units' sections.

Indicates e-mail,
name and phone
number for your
account

Enables switching between
imperial and metric units
of measurement for
volume and temperature

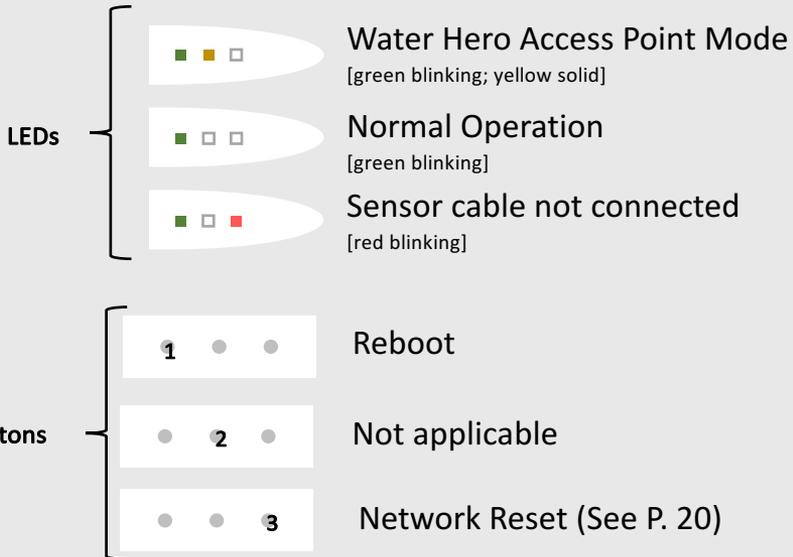
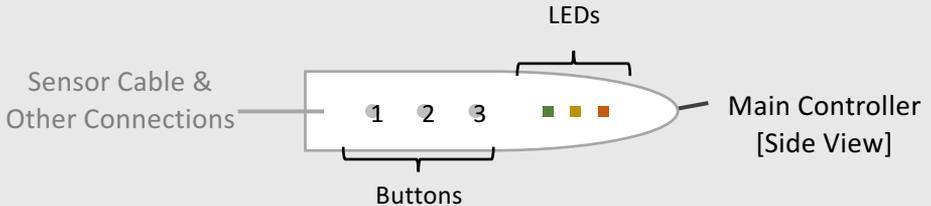


Advanced Setup

K-100



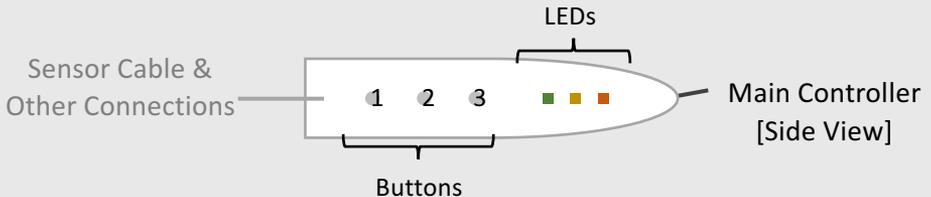
Diagnostics





Network Reset

Perform a network reset to connect the device to a new wireless network or modify e-mail address*



1. Press and release Button 1; all LEDs illuminate
2. While all LEDs are illuminated, press and hold Button 3 until the red LED turns off
3. After approximately 15 seconds, yellow LED will illuminate and the green LED will blink; Water Hero will be in Access Point mode*
4. Follow directions on P. 6 to connect Water Hero to network

*Due to battery back-up unplugging the device will not reset the device



Alternate calibration approach*

1. This approach requires access to the register on the top of your existing water meter and ability to convert units shown to gallons or liters
2. Make note of starting meter value on water meter. Taking a photo may help
3. Using a faucet, in your home or business, press the Start button and then turn on the faucet
4. Looking at the elapsed time field, allow water to flow for two minutes
5. Return to your water meter. Subtract your starting meter value from your ending meter value, and enter this amount (in gallons) into the Actual Gallons field and click Recalibrate
6. The calibration process is now complete. If an error was made, please repeat this process

Calibrate Meter

Start

elapsed

rotations

rotations per gallon

gallons

If the reported water flow is not correct, you can change the calibration for your meter by entering the actual water usage for this time period:

actual gallons

Recalibrate

*This procedure is typically used in large buildings (multi-family, commercial, etc.) where it is not possible to ensure that there is no flow after the meter.



