![SoundWater logo] **SoundWater** — Only Excellence

Quick Start Guide

Welcome to SoundWater Orcas™.

This guide shows you how to download the Orcas app and helps you set it up and connect to the Orcas Flowmeter to start taking measurements. Orcas ships fully charged and works for up to 12 hours on a single charge.
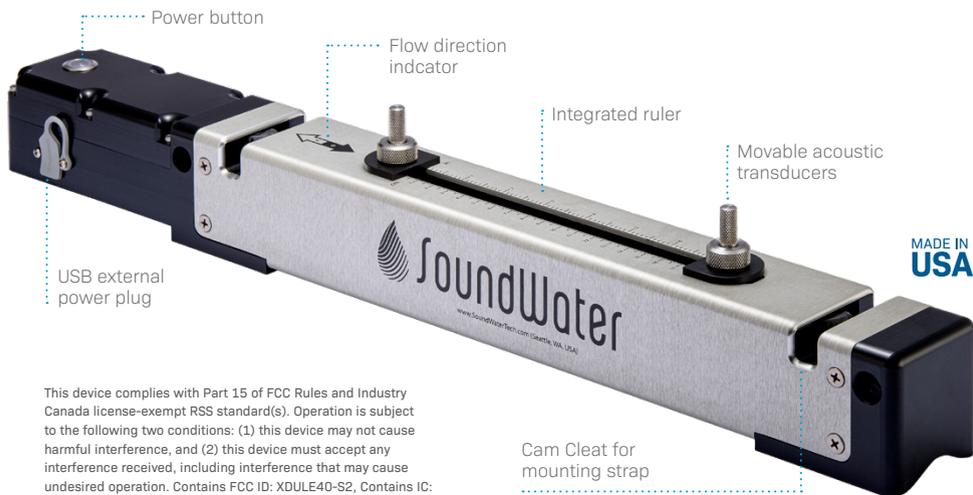
- Power button
- Flow direction indcator
- Integrated ruler
- USB external power plug
- Movable acoustic transducers
- Cam Cleat for mounting strap

MADE IN USA

MODEL: SWT ORCAS-01

Let's get started

Begin by downloading the SoundWater Orcas app to your Bluetooth enabled iOS™ or Android™ mobile device from the App Store™ or Google Play™.

Your Orcas Flowmeter battery comes fully charged and ready to go. When it's time to recharge the battery, the app will let you know.

Add location
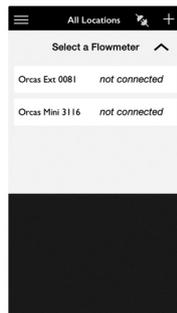
Name your location

1 Connect your flowmeter.

At launch the app will find any nearby Orcas flowmeters. Select the flowmeter you want to connect to from the list.

2 Add your location.

Launching the app lands you on the locations screen. Begin by tapping on the add location (+) button.

The app always begins with this screen at launch making it easy to access previously saved location settings.

3 Set up your location.

Drill-down through the Required parameter selections and choose from the pre-loaded pipe types, pipe dimensions, and fluid databases.

Give your location a name, then save. Each location's settings can be stored in the Orcas app, ready for reuse.

Pipe and liquid parameter selection and input screens
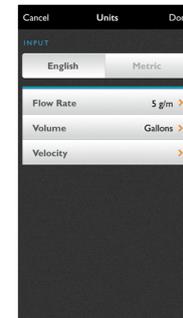
Units

Toggle between metric and Imperial units of measure.

Select **Flow Rate**, **Volume,** and **Velocity** from our pre-loaded parameter values.
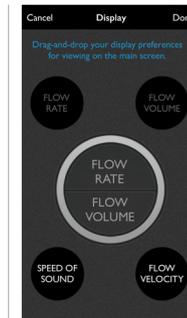
Display

Drag and drop the measurement types that you rely on most to display on the main screen.
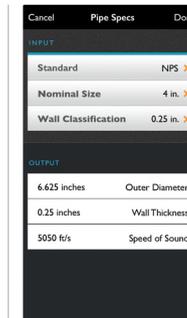
Pipe

Select **Pipe Type, Size,** and **Wall Thickness** from our pre-loaded values or add your own custom values.
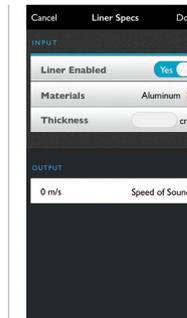
Liner

Switch between liner and no liner. With liner enabled, choose **Liner Material** from our pre-loaded database. Finally, enter the **Thickness** of your liner, and press done.
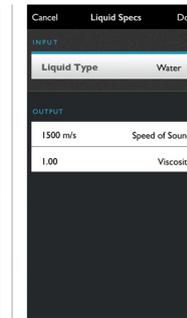
Liquid

Select **Liquid Type** and **Temperature** from pre-loaded values.

Parameters all set!
Now set your transducer spacing.

With your location parameters completely defined the app will now show a transducer spacing at the bottom of the screen. Use this value to set the position of transducers on the Orcas flowmeter.

Tap to access data-logging features.
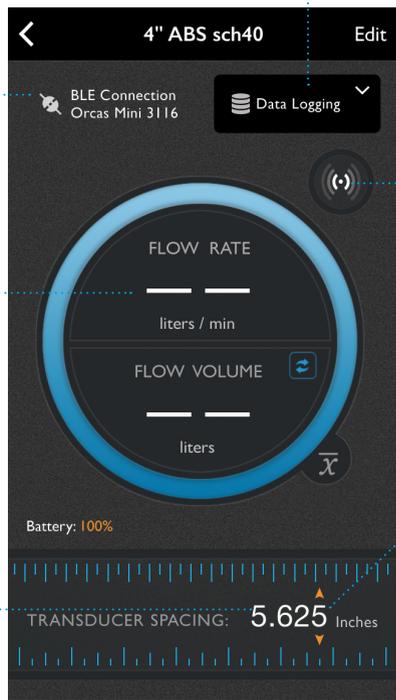
Displays that the app is connected to a flowmeter as well as its type and serial number.

Indicates the strength of ultrasound within the pipe.

Your flow measurements will display once the flow-meter is properly mounted onto your pipe, and is able to transmit and receive ultrasound.

Unlock the transducers with a slight counter-clockwise turn of the short-wide knobs.

Once unlocked, slide the transducers so they are separated by the indicated transducer spacing, and lock in place with a clockwise turn of the short-wide knobs.

Transducer spacing

4" ABS sch40   Edit

BLE Connection
Orcas Mini 3116   Data Logging

FLOW RATE

liters / min

FLOW VOLUME

liters

Battery: 100%

TRANSDUCER SPACING: 5.625 Inches
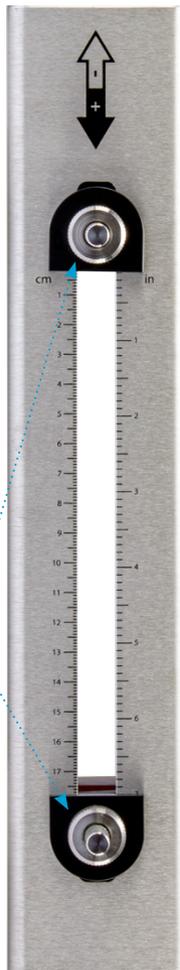
Preparing and mounting the flowmeter

Now the convenient Cam Cleat lets you mount the flowmeter on the pipe in seconds—no cumbersome clamps required. Flow rate, velocity, and totalizer measurements are transmitted wirelessly to your mobile device for display.
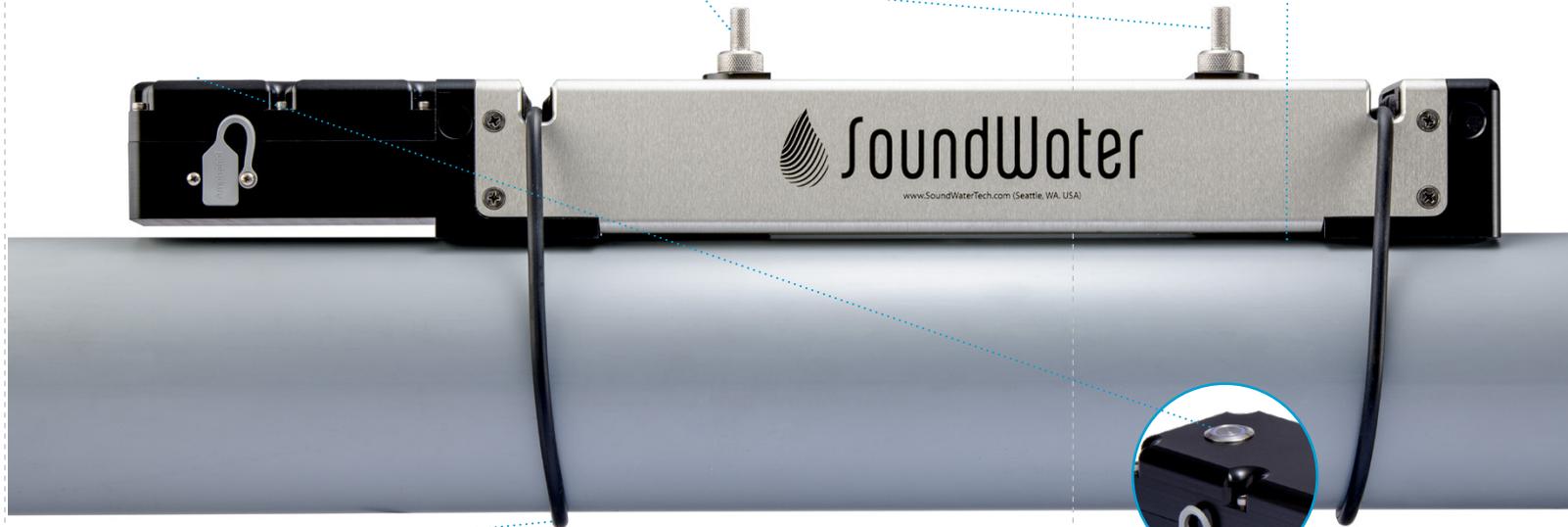
1 Begin by gently rotating and retracting the tall silver knobs until they stop.

2 Cover the entire bottom face of each transducer with the coupling gel.

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www.SoundWaterTech.com (Seattle, WA USA)

3 Rest the transducer on the pipe—it self aligns!

4 Wrap the integrated rubber straps around the pipe and secure into Cam Cleats. Do not over-tension the cords—hand tighten only.

5 Rotate the tall silver knobs clockwise to press the transducers firmly against the pipe.

6 Turn power on. A steady LED indicates that power is on. The LED will flash when connected to the supplied charger and the battery is charging.

Measure flow!

Refer back to the Orcas App to get your flow measurements.

All done?
Snap the straps out of their Cam Cleats and you're ready to move on to your next measurement. Next time you return to this location, the Orcas App will remember your settings.

4" ABS sch40   Edit

BLE Connection
Orcas Mini 3116   Data Logging

FLOW RATE
10.03
liters / min

FLOW VOLUME
100.58
liters

Battery: 100%

TRANSDUCER SPACING   5.625 Inches

Recharging the internal battery
Connect the flowmeter to the power adapter with the supplied USB cable. Next, plug the power adapter into a wall outlet. Use only the power adapter and USB cable provided with the flowmeter. The flowmeter's LED light will flash while charging and will turn itself off when complete. **To maintain the life and health of your battery,** be sure to allow the flowmeter to complete full charge cycles, i.e., continue charging until the flowmeter turns itself off.

Support

Email SoundWater Technologies at support@soundwatertech.com or call 1-509-899-7838