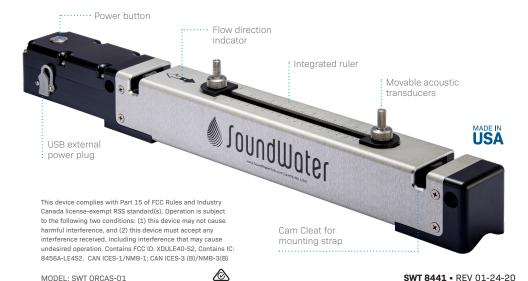


Quick Start Guide

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.



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.



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.

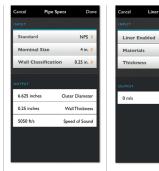
Drill-down through the Required parameter selections and choose from the pre-loaded pipe types, pipe dimensions, and fluid databases.

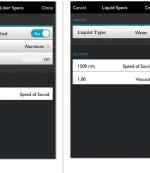
Give your location a name, then save. Each location's settings can be stored in the Orcas app, ready for reuse.

Pipe and liquid parameter selection and input screens











Toggle between metric and Imperial units of measure.

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



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



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



done.

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



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

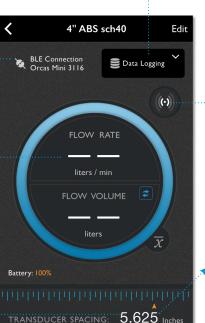
Parameters all set! Now set your transducer spacing.

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.

Displays that the app is connected to a flowmeter as well as its type and serial number.

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

Transducer spacing



Tap to access datalogging features.

Indicates the strength of ultrasound within the pipe.

Unlock the transducers with a slight counterclockwise turn of the shortwide knobs.

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

wide knobs.

Preparing and mounting the flowmeter

cords - hand tighten only.

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.



Begin by gently rotating and retracting the tall silver knobs until they stop.

press the transducers

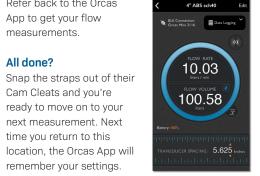
firmly against the pipe.



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

connected to the supplied charger and the

battery is charging.



Measure flow!

Refer back to the Orcas

Cam Cleats and you're

time you return to this

remember your settings.

App to get your flow

measurements.

All done?

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**

