

Orcas™ Ultrasonic Flowmeter

A portable flowmeter designed for speed and ease



Orcas is a portable ultrasonic flowmeter designed for speed and ease of use. With the Orcas, you can capture accurate and reliable flow measurements in under one minute—saving you time and money.

There are no wires and no bulky electronics to haul around. Your mobile device connects wirelessly to display measurements. And, the ultrasonic flowmeter installs on the outside of your pipe. With Orcas Flowmeter and the Orcas App, you'll get your job done more quickly every time.



Fast to install, easy to use.

SoundWater Advantages

MEASUREMENTS YOU CAN TRUST

Our proprietary SoundWater
Reciprocity Architecture™ prevents
zero-flow drift and eliminates the need
for calibration, resulting in long-term
measurement stability and accuracy.

INCREASES PRODUCTIVITY

Featuring compact lightweight construction and intuitive apps—our products streamline installation, training, and setup—saving you time and money.

MADE IN USA

Locally owned and operated out of Wenatchee, Washington, our products are built with American quality and ingenuity.

WORKS IN TOUGH APPLICATIONS

Our transducers auto-adjust ultrasonic power output depending upon pipe and fluid conditions—giving you more frequent measurements when things get tough (e.g., corroded pipe or murky fluid).

LONG LIFE / LOW MAINTENANCE

SoundWater products are built to last using the highest quality materials, gasketed & double O-ring seals, and silicone gel to protect electronics.

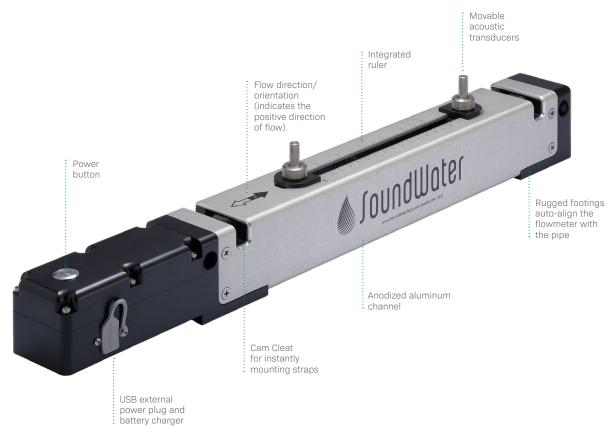
SERVICE & ACCOUNTABILITY

We establish long-term customer relationships based on trust and service. We will respond to your needs and requests within 24 hours.

Advantages & Features

- · Measure flow in under one minute
- SoundWater Reciprocity Architecture
- Auto-Adjusting Ultrasonic Power
- Mobile App for fast, intuitive setup and use
- · One-piece construction; no assembly
- · Integrated cam-cleats that instantly snap on/off the pipe
- Wireless design
- Compact size for carry-on/travel
- Gel-free transducers (optional)
- Battery powered & portable





Orcas App Features

Interactive smartphone/tablet control app — iOS or Android.



Save location information



Handy built-in pipe specifications - or add your own



Drag and drop output selection





English or metric units



Languages: English, Spanish, **Portuguese**



Easy-to-use data logging



Select liner and liquid types — or define your own









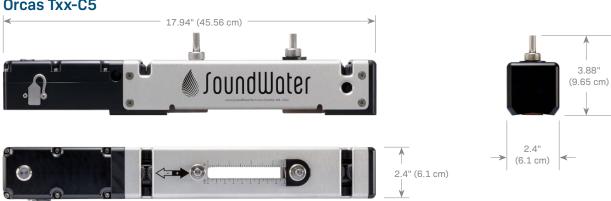






Dimensions

Orcas Txx-C5



Orcas Txx-C7





Orcas Txx-C11



2-Part (Orcas CM) Placement on Pipe



Orcas Specifications*

Installation	Installs on pipe from 0.5" to 36" nominal diameter depending on hardware selection 15 pipe diameters upstream, 5 diameters downstream for optimal performance (typical)				
Pipe Materials	Metal: Steel, Stainless Steel, Copper, Brass, Aluminum Plastic: PVC, CPVC, HDPE, LDPE, PE, PIP, FRP		ninum	NOTE: Pipe material compatibility depends upon transducer selection See Hardware options below for details.	
Flow Range	Bi-directional; 0.1 ft/s to 60 ft/s (0.03 m/s to 20 m/s)				
Performance	and 5 diameters down			0.5 0.5 0.5 nmetrical flo non-aerate	% w profile (typically taken on a straight run of 15 diameters upstream d liquids). If the equipment is used in a manner not specified by the
Display	Flow measurements display on SoundWater Orcas™ App (iOS or Android) Mobile devices connect wirelessly to Orcas with Bluetooth 4.0 (BT LE) Metric and English units				
Data Logger	Store up to 365 days, 10,000 measurements, 50,000 datapoints				
Software	Save and recall setup information Mobile device app for iPhone, iPad, iPod Touch and Android devices LANGUAGES: English, Spanish, Portuguese (app only)				
Hardware	MODEL Orcas T42-C2 Orcas T42-C5 Orcas T41-C5 Orcas T41-C7 Orcas T41-C11 Orcas T31-C5 Orcas T31-C7 Orcas T31-C7	PIPE SIZE RANGE 0.5" to 3" 1" to 4.5" 2" to 4.5" 2" to 10" 2" to 14" 2" to 6" 2" to 12" 2" to 18"	LENGTH 12" 18" 18" 22" 27" 18" 22" 27"	Plasti Plasti Plasti Plasti Plasti Plasti	MATERIALS ics, Steels, Aluminum, Copper/Brass ics, Steels, Aluminum ics, Steels, Aluminum ics, Steels, Aluminum
TWO-PART MODELS FOR DIRECT MOUNT	Orcas T31-CM Orcas T41-CM	3" to 36" 3" to 24"	* * * Length de	Plasti	ics, Steels, Aluminum ics, Steels, Aluminum, Ductile/Cast Iron, Copper/Brass ansducer spacing
Power	Rechargeable battery (12+ hours), or USB-powered continuous operation (5 volts)** 0.5W Max (100 mAmp max current; when discharging); 9W Max (1.5 Amp max current, when charging) 5 "AA" NiMH 6V pack with thermistor **Use only the charger provided with the flowmeter. Battery holds charge for 5 months when not in use. **Charger compatible with 110/220VAC 50/60 Hz.				
Power Adapter	For recharging battery — must use the 12W USB power adapter supplied with the Orcas				
Environmental	Liquid/pipe temperature -40° to 212 F (-40° to 100° C); Ambient temperature -40° to 140° F (-40° to 60° C) IP65 splash proof; weather resistant				
Materials	BODY: Anodized aluminum channel, acetal electronics housing and footings MOUNTING STRAPS: EPDM HARDWARE: Stainless steel, acetal FASTENERS: Stainless steel				
Flowmeter Kit	Flowmeter, carrying case, 4 oz. coupling gel, mounting straps, USB power adapter				
Manufacture	SoundWater Technologies, Wenatchee WA, USA				
Zero Stability	Reciprocity based hardware for measurement stability and low flow performance.				
Auto-Ranging	Auto-adjusting ultrasonic transducer power, and auto-adjusting transducer receiver gain. Maximizes usable signal and measurement quality.				
Technology	Transit Time Ultrasonic				
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