



SPECIFICATION SHEET

Cypress™ Flowmeter

Cypress [™] Ultrasonic Flowmeter

Ultrasonic flowmeters designed for speed and ease.



All Locations

4 in pve

Polson Basement

FLOW RATE

10.03

Ikers / min

FLOW VOLUME

100.58

Battery: 98%

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TRANSDUCER SPACING: 5.62&

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TRANSDUCER SPACING: 1.125 inches

Cypress is a compact lightweight flowmeter with external power and communications for long-term flow monitoring. The Cypress Flowmeter connects with your mobile device via bluetooth or to the SoundWater Flow Computer. Either way, it works with your SCADA/PLC systems. It's a single piece ultrasonic flowmeter that installs on the outside of your pipe in a snap —and senses flow through the pipe wall.

Whether you're using your mobile device or the Flow Computer, the setup is easy to follow. Quick, simple installation —5 minutes from start to finish.



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.

SoundWater Technologies, LLC :: 1-509-899-7838 ::

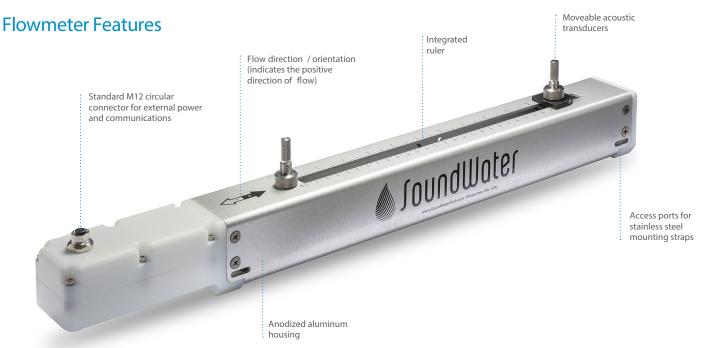
soundwatertech.com

Advantages & Features

- · Long-term flow monitoring
- Connects with your SCADA/PLC
- · SoundWater Reciprocity Architecture
- · Auto-Adjusting Ultrasonic Power

- Compatible with Mobile Orcas App or SoundWater Flow Computer; intuitive setup and use
- · One-piece construction; no assembly
- · Gel-free transducers (optional)
- · Wireless design





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







Flow Computer Features

Interactive mounted screen for long-term flow monitoring.



Connects with one or two flowmeters



No contact with fluid



Calculate analytics from two flowmeters



Standard industrial outputs



Touchscreen and intuitive app



Install indoors our outdoors



May be installed long distances from flow sensor







SoundWater

46.0249

85,197.3

Dimensions

Cypress Txxx-C5





Cypress Txxx-C11





Cypress Txxx-CM5



Cypress Txxx-CM11



Direct Mount (Cypress CM)
Placement on Pipe

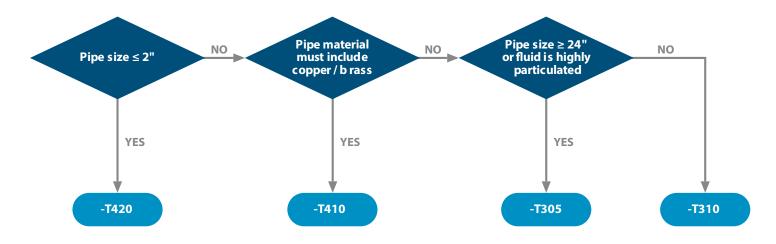


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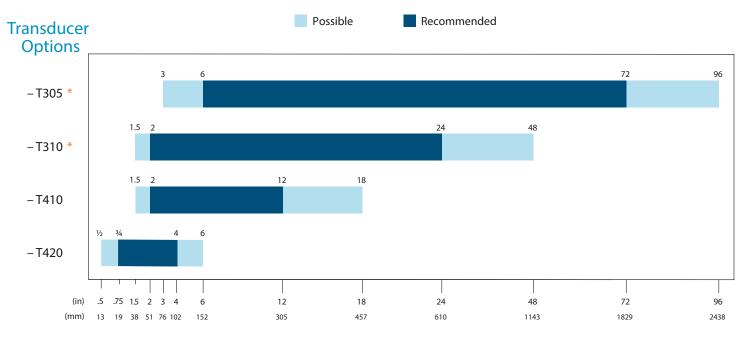
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Transducer Selection



Transducer Selection Table



* Not compatible with copper or brass

Pipe Diameter

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21					* Specifications subject to change		
Pipe Materials	Metal: Steel, Stainless Steel, Copper, Brass, Aluminum, Ductile Iron Plastic: PVC, CPVC, HDPE, LDPE, PE, PIP, FRP, PEX						
Installation	Installs on pipe from 0.75" to 72" nominal diameter depending on hardware selection 15 pipe diameters upstream, 5 diameters downstream for optimal performance (typical)						
Flow Detection Range	Bi-directional; 0 ft/s to 64 ft/s (0 m/s to 20 m/s)						
Performance	PIPE SIZE RANGE	ACCURACY		REPEATABIL	ITY		
	3" to 72"	±1.0% to 2.0% ty	•	0.5%			
	1" to 2"	±2.0% to 3.0% ty	-	0.5%			
	0.75" to 1" ±3.0% to 4.0% typical 0.5%						
	*Under standard conditions, assuming fully developed and symmetrical flow profile (typically taken on a straight run of 15 diameters upstream and 5 diameters downstream; flow rate above 3 ft/s or 1 m/s; non-aerated liquids). If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.						
Outputs	CURRENT (4-20 mA) Current proportional to flow; user programmable.						
(OPTIONAL)	PULSE NFET (NPN type) open drain output; frequency proportional to flow; user-programmable; Max 39,000 (Hz) MODBUS RTU RS485, user programmable port settings.						
Display	SoundWater Flow Computer (optional; wall mount display) SoundWater Orcas [™] App (iOS or Android) connected wirelessly to Cypress with Bluetooth 4.0 (BT LE) Metric and English units; Rate, Total, Velocity, Sound Speed						
Data Logger	Store up to 365 days, 10,000 measurements, 50,000 datapoints						
Security	Six digit password protection restricts unauthorized users from accessing or changing flowmeter setup, data logger, and totalizer						
Software	Save and recall setup information Mobile app for iPhone, iPad, iPod Touch and Android devices LANGUAGES: English, Spanish, Portuguese (app only)						
Hardware	MODEL	PIPE SIZE RANGE	LENGTH	PIPE MATERIALS			
	Cypress T420-C2	0.75" to 3"	12.0"	Steel, Stainles	teel, Stainless Stl, Plastics, Aluminum, FRP, Copper/Brass		
	Cypress T420-CM5	2" to 6"	16.6"	Steel, Stainless Stl, Plastics, Aluminum, FRP, Copper/Brass Steel, Stainless, Iron, Plastics, Aluminum, FRP, Copper/Brass			
	Cypress T410-C5	2" to 6"	16.6"				
	Cypress T410-C11 Cypress T410-CM5	3" to 14" 3" to 14"	22.6" 16.6"		s Stl, Iron, Plastics, Aluminum, FRP, Copper/Brass s Stl, Iron, Plastics, Aluminum, FRP, Copper/Brass		
	Cypress T310-C5	2" to 8"	16.6"		istics, Aluminum, FRP		
	Cypress T310-C11	2" to 18"	22.6"		istics, Aluminum, FRP		
	Cypress T310-CM5*	3" to 18"	16.6"		istics, Aluminum, FRP		
	Cypress T310-CM11*	3" to 36"	22.6"	Steel, Iron, Plastics, Aluminum, FRP			
	Cypress T305-CM5*	6" to 18"	16.6"	Steel, Iron, Pla	stics, Aluminum, FRP		
	Cypress T305-CM11* *High corrosion, large pipe or	6" to 72" tight spaces	23-39"	Steel, Iron, Pla	stics, Aluminum, FRP		
Power	12-24 VDC external power for continuous use; 0.6 W Typical (100 mAmp max current)						
Turndown	200 :1						
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 and weather resistant						
Materials	BODY: Anodized aluminum channel, PVC electronics housing and footings						
	MOUNTING STRAPS: Stainless Steel FASTENERS: Stainless steel HARDWARE: Stainlesss steel, acetal, ultem CONNECTOR: M12, nickel plated brass						
Flowmeter Kit	Flowmeter, silicone based coupling gel, mounting straps, power-communication cable						
Manufacture	SoundWater Technologies, Wenatchee WA, USA						
Zero Stability	Reciprocity based hardware for measurement stability and low flow performance.						
Auto-Ranging	Auto-adjusting ultrasor Maximizes usable signa	-		to-adjusting trar	nsducer receiver gain.		
Technology	Transit Time Ultrasonic				This device complies with Part 15 of FCC Rules and Industry Canada license-exempt RSS		
Regulatory Certification	FC (© 0008-160188 ()	\			standard(s). 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,		
<u> </u>		•			including interference that may cause undesired operation. Contains FCC ID: XDULE40-52, Contains IC: 8456A-LE4S2. CAN ICES-1/NMB-1; CAN ICES-3 (B)/NMB-3(B)		

MODEL: SWT ORCAS-01





