SWT

MADE IN
USA

Ultrasonic flowmeters designed for speed and ease

SWT flowmeters are
easy to install and provide
quick, accurate results



"SWT exceeds our expectations. This is why I keep coming back."

PAVEL MILKE | BARCLAY WATER MANAGEMENT

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Fast to install, easy to use.

Experience the SWT Advantage.

Building on more than 50 years of flow metering and ultrasonics industry experience, our engineering team designs and develops reliable plug and play devices that help you get more accurate data, faster, and with less hassle.

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 reduce 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 of Ultrasonic Flowmeters

- Non-invasive—pipe wall is not penetrated
- No pressure drop in fluid
- Simple clamp-on mounting
- No contact with pipe fluid
- No risk of leaks or contamination of fluid
- No damage by debris or chemicals inside pipe
- No system shutdown or costly pipe modifications for installation or repair
- Easy and inexpensive to install and move
- Little to no maintenance
- Insensitive to fluid type, chemicals
- Insensitive to viscosity
- Cost does not scale with pipe diameter
- No moving parts

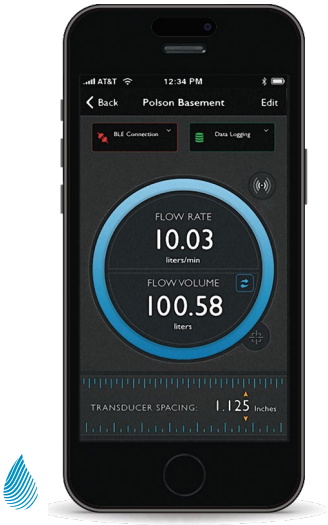
SWT Orcas™

PORTABLE ULTRASONIC FLOWMETER



A portable flowmeter for test and verification of flow. Your mobile device connects via Bluetooth and displays measurements. This flowmeter is designed for speed and ease of use—start to finish in under one minute!

- Measure flow in under one minute
- SoundWater Reciprocity Architecture
- Auto-Adjusting Ultrasonic Power
- Sized for carry-on and transport
- Connects with your mobile device
- Battery powered



Interactive smart phone/tablet control app — iOS or Android

SWT Cypress™

ULTRASONIC FLOWMETER

A compact lightweight flowmeter with external power and communications for long-term flow monitoring. It connects with your mobile device via Bluetooth and your SCADA/PLC systems. Quick, simple installation—5 minutes from start to finish.



- **Hazardous Areas C1D2**
- Long-term flow monitoring
- Connects with your Modbus RTU/ RS485, Pulse, 4-20mA, SCADA/PLC
- Connects with your mobile device
- Connects with Flow Computer below
- SoundWater Reciprocity Architecture
- Auto-Adjusting Ultrasonic Power
- Complies with UL/CSA Safety Standards

SWT Thermal Energy Meter

FIXED-INSTALLATION SOLUTION FOR ENERGY AND FLOW MEASUREMENT

A completely non-invasive compact thermal energy meter designed for thermal energy measurement. The sustem measures flow, temperature, and energy (BTU) all in one system with external power and industrial communications designed for long-term metering.



- PT 1000 matched pair for highest performance on differential measurement
- Connects with your BACnet IP, Modbus RTU/RS485, Pulse, Alarm, SCADA, PLC or HMI
- Wall-mounted touchscreen & app
- SWT Reciprocity Architecture for zero-point stability
- Simple, quick & cost-effective installation
- One-piece flowmeter construction; no assembly

SWT Flow Computer with Cypress Ultrasonic Flowmeter

WALL MOUNT DISPLAY & FLOW COMPUTER

The SWT Flow Computer is a wall mounted display and computer that connects to the Cypress Ultrasonic Flowmeter. It accepts one or two flowmeters for averaging flows, adding or subtracting flows, proportional output (dosing/mixing), or just displaying two flows on one display. It also connects to your SCADA/PLC systems, and is ideal when a local display is required.



- Wall mounted touch screen & app
- Connect up to two flowmeters
- Average two flows for better accuracy or lack of straight pipe
- Subtract or add flows for diverging or converging pipes
- Divide flows for mixing/dosing and proportional pump control
- Connects with your Modbus RTU/ RS485, Pulse, 4-20mA, SCADA/PLC
- Long-term flow monitoring



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Cypress Specifications*

* Specifications subject to change

Hardware

	MODEL	PIPE SIZE RANGE	LENGTH	FREQUENCY (MHz)
DOUBLE TRAVERSE	Cypress T420-C2	1" to 3"	12.0"	2
	Cypress T410-C5	2" to 6"	16.6"	1
	Cypress T410-C11	2" to 14"	22.6"	1
	Cypress T405-C11	8" to 14"	22.6"	0.5
SINGLE TRAVERSE	Cypress T420-CM5	2" to 6"	16.6"	2
	Cypress T410-CM5	4" to 14"	16.6"	1
	Cypress T410-CM11	4" to 24"	22.6"	1
	Cypress T405-CM5	10" to 14"	16.6"	0.5
	Cypress T405-CM11	10" to 48"	23-39"	0.5

Flowmeter Kit includes flowmeter, silicone based coupling gel, mounting straps, 15' power/ communication cordset

Pipe Materials: Steel, Stainless Steel, Iron, Plastics, Aluminum, FRP/GRP, Copper/Brass

Options/Add-ons Each Cypress flowmeter is available in two models:
-MB (Modbus RTU/RS485 option)
-420 (4-20mA & pulse outputs). When ordering, you must choose one or the other.

***NOTE:** For use with the SWT Flow Computer, choose -MB.*

Orcas Specifications*

* Specifications subject to change

Hardware

	MODEL	PIPE SIZE RANGE	LENGTH	FREQUENCY (MHz)
DOUBLE TRAVERSE	Orcas T420-C2	1" to 3"	12"	2
	Orcas T420-C5	1" to 6"	18"	2
	Orcas T410-C5	2" to 6"	18"	1
	Orcas T410-C7	2" to 10"	22"	1
	Orcas T410-C11	2" to 14"	27"	1
	Orcas T405-C11	8" to 14"	27"	0.5
SINGLE TRAVERSE	Orcas T405-CM	10" to 72"	**	0.5
	Orcas T410-CM	4" to 24"	**	1

Flowmeter Kit includes flowmeter, carrying case, 4 oz. coupling gel, mounting straps, USB power adapter

Pipe Materials: Steel, Stainless Steel, Iron, Plastics, Aluminum, FRP/GRP, Copper/Brass

***Length depends on transducer spacing*

Flow Computer Specifications*

* Specifications subject to change

Hardware

MODEL	POWER / CORD GRIPS
FC100	12-24 VDC with brass cord grips
FC100-AC	100-240 VAC 50/60Hz with ABS cord grips
FC100-AL-AC	100-240 VAC 50/60Hz with aluminum cord grips

Thermal Energy Meter Specifications*

* Specifications subject to change

Hardware

	MODEL	PIPE SIZE RANGE	LENGTH	FREQUENCY (MHz)
DOUBLE TRAVERSE	TEM100-T420-C2	1" to 3"	9"	2
	TEM100-T410-C5	2" to 6"	12"	1
	TEM100-T405-C11	8" to 14"	18"	0.5
SINGLE TRAVERSE	TEM100-T410-CM5	4" to 14"	12"	1
	TEM100-T405-CM5	10" to 14"	12"	0.5
	TEM100-T405-CM11	10" to 24"	18"	0.5

Options/Add-ons **-AC** (100-240 VAC 50/60Hz power)

TEM Kit includes Cypress Ultrasonic Flowmeter w/10 ft (3m) armored cable, two PT1000 RTD thermal surface mount sensors w/30 ft (10 m) armored cables, nickel-plated brass cord grips, Teflon-based coupling gel, mounting straps.

Pipe Materials: Steel, Stainless Steel, Iron, Plastics, Aluminum, FRP/GRP, Copper/Brass

Calibration Services

- Wet Calibration & Calibration Report

Let's talk flowmeters!

Start simplifying your flow measurement process today.
To learn more, contact us any time.

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