

SPECIFICATION SHEET

Cypress™ Flowmeter

Hazardous Areas C1D2

Cypress™ Ultrasonic Flowmeter

Ultrasonic flowmeters designed for speed and ease.



All Locations

All Locations

All Locations

BLE Connection

Creas for 8079

Data Logging

Polson Basement

Edit

Polson Basement

FLOW RATE

10.03

Inters / min

FLOW VOLUME

100.58

Inters

Battery 98%

Battery 100%

TRANSDUCER SPACING: 5.628

TRANSDUCER SPACING: 1.125 Inches

Cypress is a compact ultrasonic flowmeter with external power and industrial communications designed for long-term flow monitoring and certified for use in C1D2 hazardous areas. It installs on the outside of your pipe—and senses flow through the pipe wall. The Cypress Flowmeter connects with your mobile device or to the SoundWater Flow Computer for displaying measurements.

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.

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

- · 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

SoundWater

46.0249

85,197.3



Standard industrial outputs



Touchscreen and intuitive app



Install indoors our outdoors



May be installed long distances from flow sensor

Dimensions

Cypress Txxx-C5





Cypress Txxx-C11





Cypress Txxx-CM5

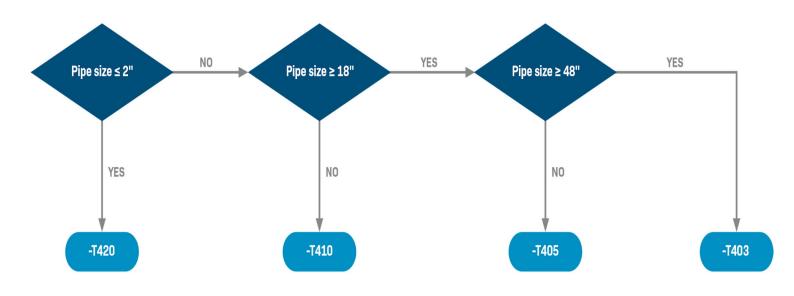


Cypress Txxx-CM11

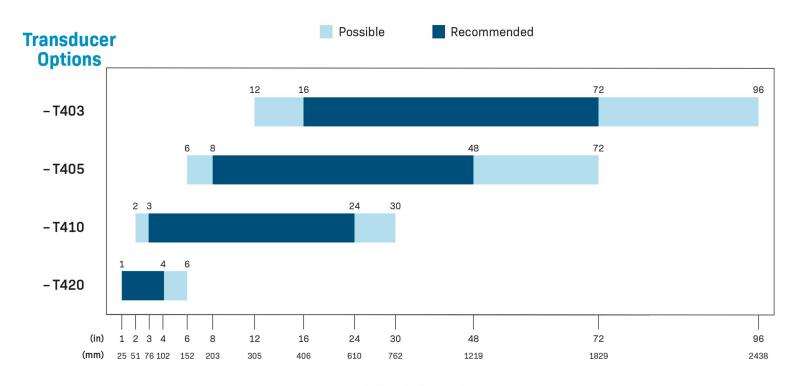


Cypress -CM Single Traverse





Transducer Selection Table



Pipe Diameter

Cypress Specifications*

Pipe Materials	Metal: Steel, Stainless Steel, Copper, Brass, Aluminum, Ductile Iron Plastic: PVC, CPVC, HDPE, LDPE, PE, PIP, FRP, PEX						
nstallation	Installs on pipe from 1" to 96" 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)						
Min. Wall Thickness	-T420: 0.05"	T410: 0.10"	-T405: 0.20	" -T403: 0.4"			
Performance	3" to 96" ± 1" to 2" ± 2" ± 4" to 2" ± 4" to 2" ± 4" to 5 diameters downstream	; flow rate above 3 ft/s or 1m/	s; non-aerated lic		upstrean		
Outputs Optional)	CURRENT (4-20 mA) Current proportional to flow; user programmable. PULSE NFET (NPN type) open drain output; frequency proportional to flow; user-programmable; Max 39,000 (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						
_anguages	English, Spanish, Portuguese (app only)						
Flowmeter Kit	Flowmeter, silicone based coupling gel, mounting straps, power-communication cable						
DOUBLE TRAVERSE SINGLE TRAVERSE	Cypress T420-C2 Cypress T420-CM5 Cypress T410-C5 Cypress T410-C11 Cypress T410-CM5 Cypress T410-CM11 Cypress T405-CM5 Cypress T405-CM5 Cypress T405-CM11	PIPE SIZE RANGE 1" to 3" 2" to 6" 2" to 6" 2" to 14" 4" to 14" 4" to 24" 6" to 14" 6" to 48"	LENGTH 12.0" 16.6" 16.6" 22.6" 16.6" 26.6" 16.6" 23-39"	FREQUENCY (MHz) 2 2 1 1 1 0.5 0.5			
Power	Cypress T403-CM14 12" to 96" 30" 0.3 12-24 VDC external power for continuous use; 0.6 W Typical (100 mAmp max current) REQUIRED: The cover must be installed on the equipment before use. REQUIRED: UL/CSA 62368-1 Listed Class 2 supply						
Turndown	200:1						
Environmental	Liquid/pipe temperature -40° to 140 F (-40° to 60° C); Ambient temperature -40° to 140° F (-40° to 60° C) NEMA 4/6P indoors or outdoors, wash-down environment, corrosion resistance, and occasional submersion						
Materials	BODY: Anodized aluminu MOUNTING STRAPS: Stainl HARDWARE: Stainlesss st	ess Steel	FASTENERS: St				

(Specifications continue, next page)

Cypress Specifications*

Distributor	DILL-TECH, Bullcreek, Western Australia					
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					
Regulatory Certification	Class I, Division 2, Groups A-D T4, -40°C to +60°C		\wedge			



Complies with UL61010-1, UL121201, CSA C22.2 No 61010-1, CSA C 22.2 No. 213

WARNING: EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE CONNECTOR WHILE CIRCUIT IS LIVE UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS

AVERTISSEMENT: RISQUE D'EXPLOSION. NE PAS RETIRER NI REMPLACER LE CONNECTEUR PENDANT QUE LE CIRCUIT EST SOUS TENSION, À MOINS LA ZONE EST EXEMPT DE CONCENTRATIONS INFLAMMABLES

This device complies with Part 15 of FCC Rules and Industry Canada license- exempt RSS 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, including interference that may cause undesired operation. Contains FCC ID: XDULE40-S2, Contains IC: 8456A-LE4S2. CAN ICES-1/NMB-1; CAN ICES-3 (B)/NMB-3(B) MODEL: SWT ORCAS-01











Distributor of Subsurface Detection System and Utility Instruments

www.dill-tech.com.au Email: sales@dill-tech.com.au Phone: (+61) 0407 425 315