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Introduction

TSONIC-503 ultrasonic flow meter is a wall-mount, clamp-on or insertion type ultrasonic flow meter using transit-time technology. Both Clamp on type sensors and Insertion type sensors are available. New designed using advanced chip and low-voltage broadband pulse transmission, ensure flow meter with high accuracy and repeatability for long term operation. **Advantages**

Comparing with other traditional flow meter, TSONIC-503 ultrasonic flow meter has distinctive features such as high precision, high reliability and high capability.

TSONIC-503 ultrasonic flow meter adopt user-friendly menu design. British and metric measurement units are available. Support to check total flow for the last 64days and months as well as for the last 6 years. With SD card function optional, ultrasonic flow meter could achieve data storage for analysis.



Applications

TSONIC-503 ultrasonic flowmeter is widely applied in HVAC, water treatment, irrigation.

Technical Data

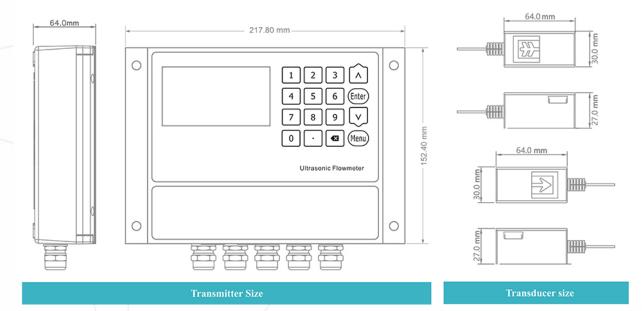
Wall Mounted Ultrasonic Flow Meter Parameters

Size	DN25-DN3000mm				
Accuracy	±1% of measured value				
Flow Range	±0.09ft/s ~ ±32ft/s (±0.03m/s ~ ±10m/s)				
Fluid	Single medium liquid				
Pipe Material	Carbon steel, stainless steel, PVC and other compact material pipe				
Power Supply	110~240VAC/1A				
Outputs	Analog output: 4~20mA, max load 750 Ω				
	Pulse output: 0~10KHz				
Communication	RS485				
Temperature	Transmitter: -14°F~140°F(-20°C~60°C)				
	Transducer: -40°F~176°F(-40°C~80°C,standard)				
	-40°F~176°F(-40°C~130°C,special)				
Humidity	Up to 99% RH, non-condensing				
Protection	Transmitter: PC/ABS, IP65				
	Transducer: ABS, IP68				
Cable	9m (standard), Longer cable available				



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Dimension



Model Selection

Model Selection		1	1	1	1	1	1
Tsonic-503	Specification						
Signal	OCT, Relay, RS-232/RS- 485, 4-20 mA (Volumetric)	1					
	OCT, Relay, RS-232/RS- 485, 4-20 mA, RTD input (Energy)	2					
	*must select Code PT1000 or provide external temperature sensors						
Type of transducers	Clamp-on, IP68. Operating temperature: -40°F ~ +176°F(-40°C ~ +65°C)	- -	CD01				
	Clamp-on, IP68. 2MHz Pipe		C2				
	Operating temperature: 32°F~140°F(0°C ~ +60°C)						
	Clamp-on, IP68. Operating temperature: -40°F ~ +266°F(-40°C ~ +130°C)		CIU				
	Insertion, IP68. Operating temperature: -40°F ~ +266°F(-40°C ~ +130°C)		W1				
Cable length	9m (standard)			P9			
	5m (standard for C2 only)			P5			
	۲۸۸ (max 274m)			PXX			
Temperature Sensor	Without a pair of clamp on PTI000 sensor 9m			<u>.</u>	WT		
(BTU meter only)	With a pair of clamp on PTI000 sensor 9m	n PT1000 sensor 9m			WA]	
Power Supply	DC110-240V					AC	
Special Function	None						N
	DC power,10-36VAC						DC
	SD Card						SD
	HART						н



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Installation

The first condition for ultrasonic flow meter is the pipe must be full of liquid, the bubbles will greatly influence the accuracy of the measurement, please avoid the following installation positions:

