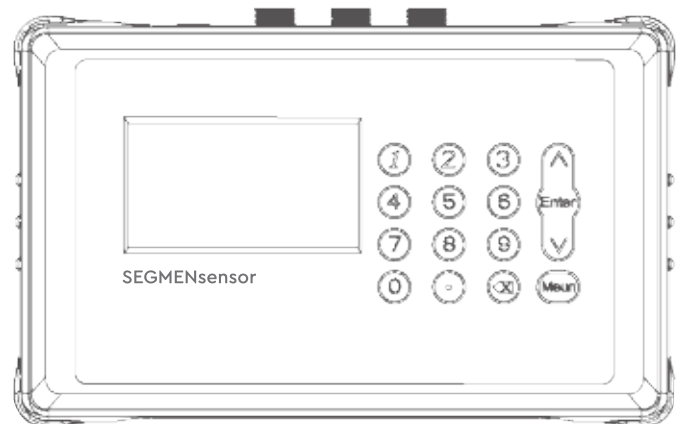


SEGMENsensor



ULTRASOME FLOW METER-SEG821

Suitable for any diameter pipe

Ultrasonic Flow Meter (Portable)

Introduction

It is a full function handle transfer time ultrasonic flow meter. No matter you want to quickly verify the flow reading of another meter or to data log flow system values over an extended time period, the FlōwT' s is the suitable tool. The portable meter has the clamp on transducers no tapping or cutting is required, just clamp outside of the pipe. The meter can be easily moved and installed in different pipe and convenient to carry site to site. Its portability makes it an excellent choice for measuring flows throughout the plumbing infrastructure to verify sensor, pump and valve performance.



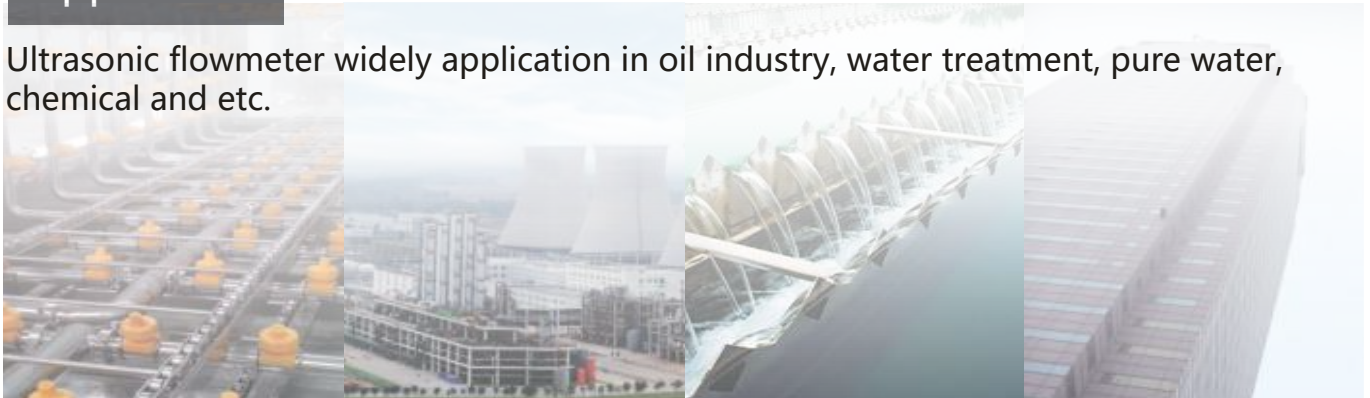
Feature



1. Easy to install, reduced installation time and cost.
2. No pressure head loss, No moving parts to maintain or replace.
3. BTU function is an option. could be used as a portable ultrasonic energy meter.
4. Powerful data storage and also support the data sheet analysis software.

Application

Ultrasonic flowmeter widely application in oil industry, water treatment, pure water, chemical and etc.



Specification

Performance specifications

Flow range	± 0.03 ft/s ~ ± 40 ft/s (± 0.01 m/s ~ ± 12 m/s)
Accuracy	$\pm 1\%$ of measured value
Pipe size	Clamp-on: 1" ~ 48" (25mm ~ 1200mm)
Fluid	Single medium liquid
Pipe material	Carbon steel, stainless steel, PVC and other compact material pipe

Function specifications

Outputs	Analog output: 4~20mA, Max 750 Ω . Modbus: RS485
SD card	16G
Interval	1 ~ 99999seconds
Key board	Digital keys
Display	240*128 back lit LCD
Power supply	Rechargeable Lithium Battery Power, 3000mAh (Continuous operation of main battery 16 hours).
Temperature	Transmitter: -40°C ~ 60°C Transducer: -40°C ~ 80°C (-40°C ~ 80°C is standard; -40°C ~ 130°C is an option)
Humidity	Up to 99% RH, non-condensing

Physical specifications

Transmitter	NEMA13, IP54.
Transducer	Encapsulated design, IP68
Transducer cable	Standard cable length: 5m (16ft).

Ultrasonic Flow Meter (Portable)

Product photo



Accessories

1. Carrying Case*1pc.
2. Transmitter (Electronic)*1pc.
3. Transducer (Sensor) *1 pair.
4. Mounting track*1 set, ST or DT
5. Pipe straps *2 pairs.
6. Coupling compound (Grease)*1 pc, Battery charge*1pc, Output cable*1pc and Tapeline*1



Single guide mounting type bracket (Code ST)

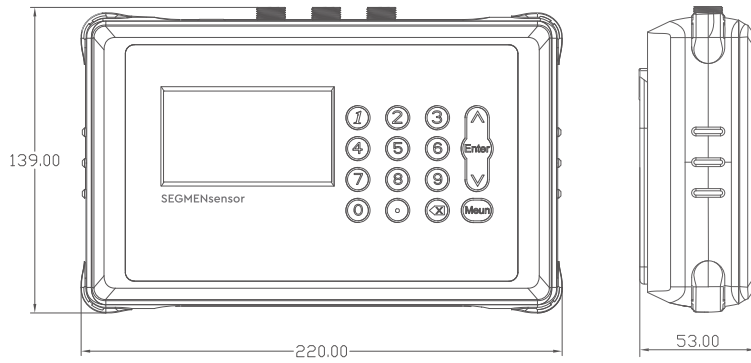


Dual guides mounting type bracket (Code DT)

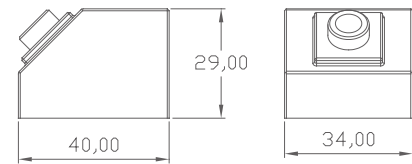
Ultrasonic Flow Meter (Portable)

Size

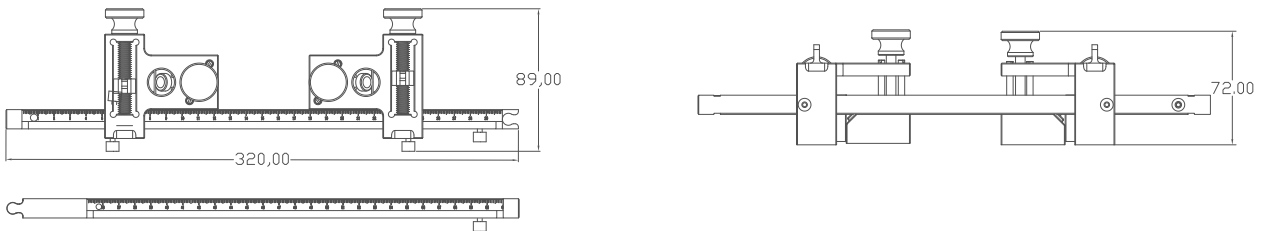
Transmitter size



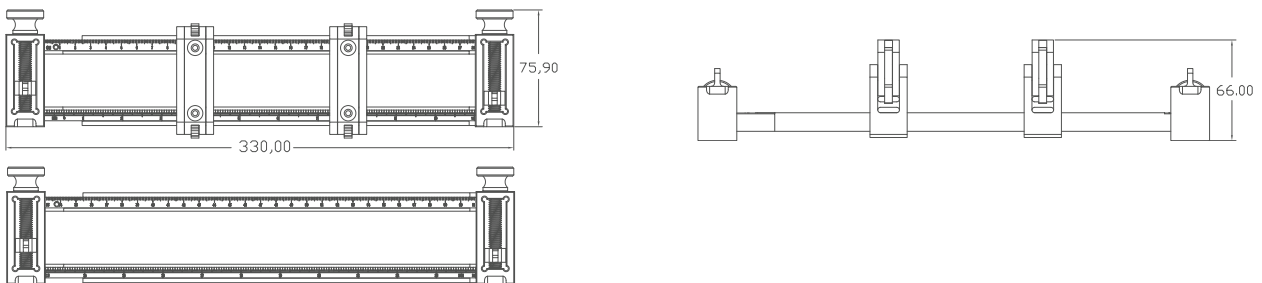
transducer size



ST mounting kit size



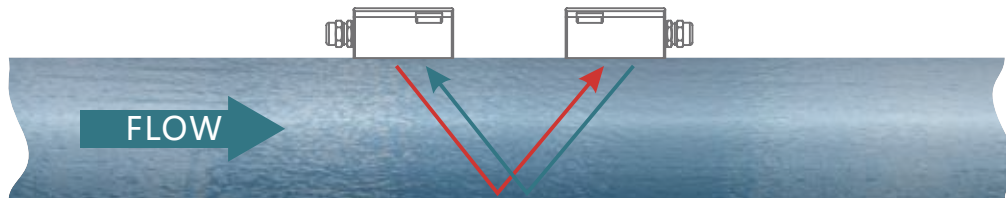
DT mounting kit size



Ultrasonic Flow Meter (Portable)

Measuring principle

Transfer time technical means the ultrasonic signal from the transducer is transmitted and received through the moving liquid, there will be a difference between the upstream and downstream transit time, which can be used to calculate flow and velocity.



An ultrasonic meter equipped with heat flow capabilities measures the rate and quantity of heat delivered or removed from devices such as heat exchangers. By measuring the volumetric flow rate of the heat exchanger liquid, the temperature at the inlet pipe and the temperature at the outlet pipe, the energy usage can be calculated.

Ordering code

Model	Description
	Portable Ultrasonic Flow Meter Installation method: Handheld Flow Range: ± 0.03 ft/s ~ ± 40 ft/s (± 0.01 m/s ~ ± 12 m/s) Accuracy: $\pm 1\%$ of measured value Repeatability: 0.2% Output: 4-20mA, RS485 Internal lithium power supply: 3000mAh Pipe size range: 1" ~ 48" (25mm ~ 1200mm) Transducer: IP68, D series transducer, 5m cable with mounting kits.

Ultrasonic Flow Meter (Portable)

Code	Type of Transmitter
1	Ultrasonic Flow Meter
2	Ultrasonic Energy/Btu Meter function(RTD)
Code	Type of transducers
D1	Clamp-on, IP68. Operating temperature: -40°F ~ +176°F(-40°C ~ +80°C)
D1U	Clamp-on, IP68. Operating temperature: -40°F ~ +266°F(-40°C ~ +130°C)
W1	Insertion, IP68. Operating temperature: -40°F ~ +266°F(-40°C ~ +130°C)
Code	Type of mounting track
ST	Single guide mounting type bracket
DT	Dual guides mounting type bracket
Code	Transducers cable length
P5	D series type of cable Standard 5m (16ft) with mounting track.
PXX	XX is the length you need for cables, Maximum lengthen to 30m.
Code	Temperature sensor
PT1000	A pair of clamp on PT1000 sensor 9m
<p>Flow meter model (example): 1-D1-ST-P5 Portable Ultrasonic Flow Meter , D1 type transducer 5m cables with single guide mounting track.</p> <p>Energy/ Btu meter model(example): 2-D1-ST-P5-PT1000 Portable Ultrasonic Energy/Btu Meter , D1 type transducer 5m cables with single guide typemounting track. A pair of PT1000 clamp on temperature sensor, 9m cables.</p> <p>*You could choose the mounting track as the application need and your use habit.</p>	