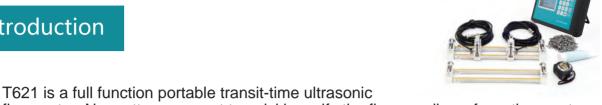




QT621 Ultrasonic Flow Meter (Portable)



Introduction



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 QT621 meter is the suitable tool. The innovative design includes matched precision transducers and signal processing circuitry to accurately measure the flow of most liquids over a wide range of velocities. Clamp-on transducers create no wear, zero pressure loss, and do not require process interruptions to install them since they are attached to the outside of the pipe. The meter can be easily moved and installed in different pipes 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. QT621 could be used as a portable ultrasonic energy meter.
- 4. Powerful data storage and also support the data sheet analysis software.

Application

QT621 ultrasonic flowmeter is widely applied 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	±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 broad	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).



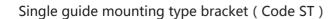
Product photo



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







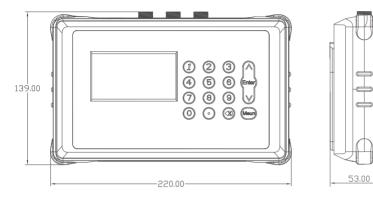
Dual guides mounting type bracket (Code DT)





Size

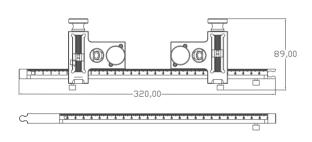
Transmitter size

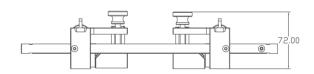


transducer size

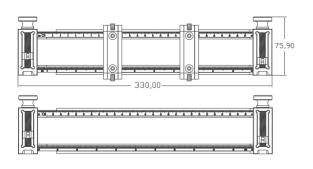


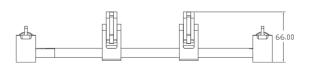
ST mounting kit size





DT mounting kit size

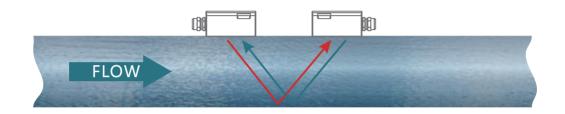






Measuring principle

Transit time technology utilizes ultrasonic waves transmitted and received through moving liquid. The difference between upstream and downstream transit time can be used to calculate flow and velocity.



An ultrasonic meter equipped with heat flow capabilities measures the rateand 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
QT621	Portable Ultrasonic Flow Meter
	Installation method: Handheld
	Flow Range: ±0.03 ft/s ~ ±40 ft/s (±0.01 m/s~ ±12 m/s)
	Accuracy: ±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.



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

Flow meter model (example):

QT621-1-D1-ST-P5

Portable Ultrasonic Flow Meter QT621, D1 type transducer 5m cables with single guide mounting track.

Energy/ Btu meter model(example):

QT621-2-D1-ST-P5-PT1000

Portable Ultrasonic Energy/Btu Meter QT621, D1 type transducer 5m cables with single guide type mounting track. A pair of PT1000 clamp on temperature sensor, 9m cables.

*You could choose the mounting track as the application need and your use habit.











