

pFlow

E3 Ultrasonic Energy Meter



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E3 Ultrasonic Energy Meter



Easy to Install
Not need adjust

About E3

E3 ultrasonic energy meter is designed for catering to the small pipe size of PVC, carbon steel, stainless steel, copper which can be widely used in saving-energy, air-conditioning, building automation system, data central, energy audit, HVAC, etc. It is very easy to install. The installation only needs 30 seconds. It is simple to use, and very portable because of small size. This would help you save the next sales cost significantly.

Based on the TCT (Time Comb Technology), a kind of technology used to measuring signal flight time, E3 is invented

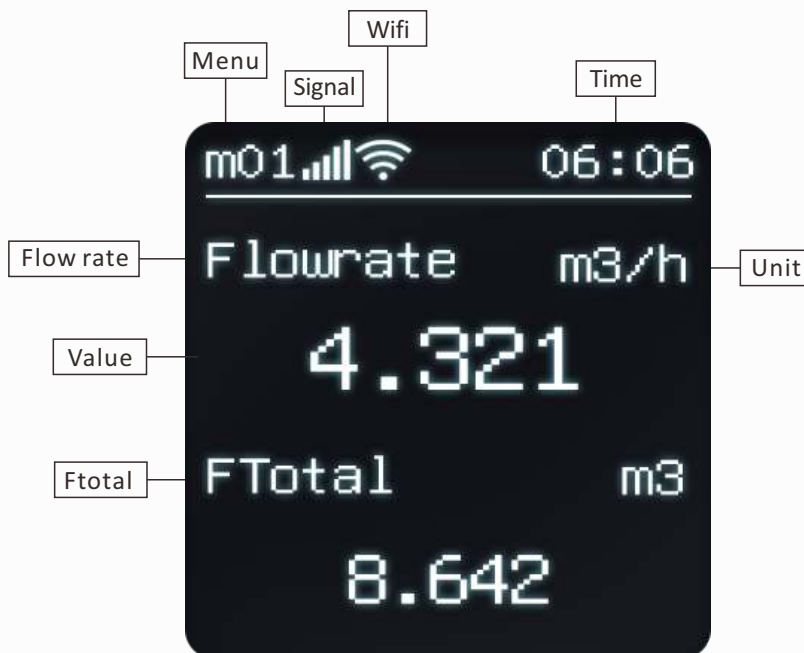
Main characters:

The product is an integrated structure design, which is easy to install through four screws, and has special insulation on the outside. The jacket reduces the hassle of field installation. Its characteristic is that it can be measured with the buckle. There is no need to cut the pipe, and there is no need to stop. At the same time, it also has rich network functions, supporting Wi-Fi, Bluetooth, etc.. And It can realize icloud data storage and analysis management functions. You can have access to "Gentos iCloud" or your own icloud data center. Data collection can meet different working conditions.



Menu Display

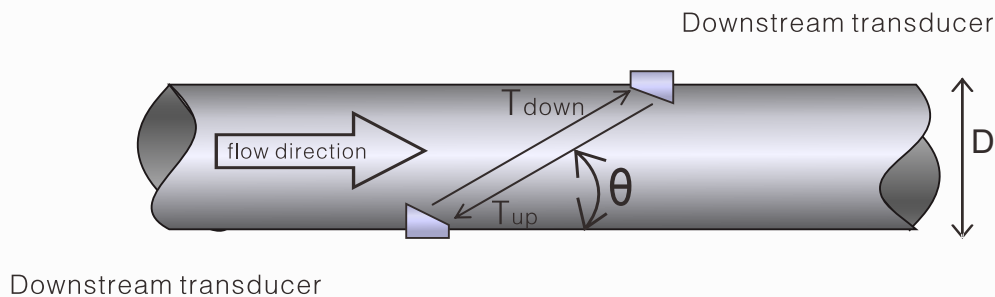
Every meter is strictly tested before delivery. The meter can normally operate without setting.



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Working Principle

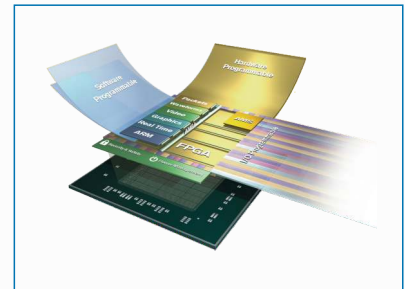
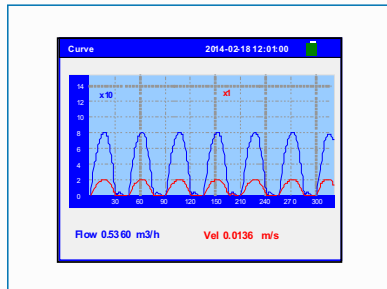
When the ultrasonic signal is transmitted and received through the moving liquid, there will be a difference between the upstream and downstream transit time, which can be used to calculate flow and velocity.



TCT Technology

TCT Technology

The TCT (Time Comb Technology) is a kind of technology used to measuring signal flight time. The technology is invented by Gentos Measurement & Control Co., Ltd. in 2019. Since the technology was invented, it has achieved the time measurement accuracy of 50ps (TVT is 130ps), and has outstanding characteristics of high accuracy, high stability and low cost.

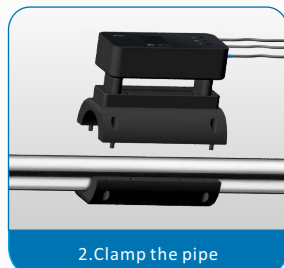


Installation Steps

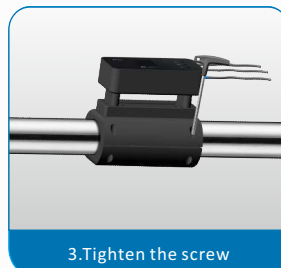
The clip on meter is measured with an integrated design, The installation is very simple. There is no need to break the pipe, stop the pump, and set parameter. E3 is directly clipped on the pipe section, and tightened the screw to turn on the power flow measurement.



1. Take out the product



2. Clamp the pipe



3. Tighten the screw



4. Power on to start

Specification

Performance specifications	
Accuracy	±2.0%
Measuring Medium	Water
Pipe Material	ABS
Protection Rate	IP55
Digital Communications	RS-485, MODBUS RTU,WIFI, BLUETOOTH
Pipe Sizes	DN20 DN25 DN32 DN40 DN50 DN65 DN80
Pipe Material	PVC, Carbon Steel, Stainless Steel, Copper
Function specifications	
Power Supply	10~36VDC, @500mAMax
Temperature	Transmitter: -10℃ ~ 50 ℃, Transducer: 0℃ ~ 60 ℃ PT1000 sensor: 0℃~100℃
Humidity	Up to 99% RH; Non-condensing
Physical specifications	
Transmitter	ABS
Power Supply Cable	2.0 m (standard)
Display	OLCD Display
Weight	0.68 kg-2.0kg

Dimensions Unit:mm						
Model	∅	L	W	h	Flow Range m³/h	Weight(kg)
DN20	25~27	140	60	126	0.05~5	0.68
	27~29	140	60	127		
DN25	31.5~33.5	140	60	129	0.07~7	0.71
	33.5~35.5	140	60	127		
DN32	38.5~40.5	140	60	132	0.12~12	0.82
	40.5~42.5	140	60	133		
DN40	48~50	140	60	143	0.2~20	0.96
	52~54	140	60	145		
DN50	59.5~61.5	140	60	154	0.6~5	1.1
	61.5~63.5	140	60	154		
DN65	65~67	140	60	162	0.05~5	1.6
	71.5~73.5	140	60	166		
	74.5~76.5	140	60	167		
DN80	77.5~79.5	140	60	174	0.05~5	2.0
	88.5~90.5	140	60	185		

