Gentos Measurement & Control Co., Ltd.

pFlow

E3E Clip-on
Ultrasonic Thermal Energy / BTU Flow Meter

Power and communication over Ethernet cable



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Product Overview



The E3E Clip-on Ultrasonic Thermal Energy / BTU Flow Meter adopts the ultrasonic time difference measurement principle, and is combined with Gentos ultrasonic signal processing technology and unique flow and energy algorithm, to achieve accurate measurement of fluid flow and energy in the pipeline. The product has an integrated clamp-on structure design, which is simple and convenient to install. After four steps of operation, it can be powered on for measurement. During the installation process, there is no need to contact the fluid medium, and there is no need to stop production.

The instrument adopts POE power supply and Ethernet communication to realize cloud data storage. Users can access cloud data anytime and anywhere through mobile terminals or PC terminals to manage, analyze and query measurement data information.

Product Features and Functions

Features

- Easy installation, no pipe rework or damage
- No adjustment, clip on to measure
- LCD colorful display screen
- High-precision matching temperature sensor
- 360° rotation adjustable display screen
- Power and communication over Ethernet cable, safe and convenient

Functions

- Power and communication over Ethernet
- Available on the MeterTube app and platform

Application and Industry

HVAC, heating, energy-saving monitoring, heat balance regulation, heating regulation, AHU room, thermal energy transformation...



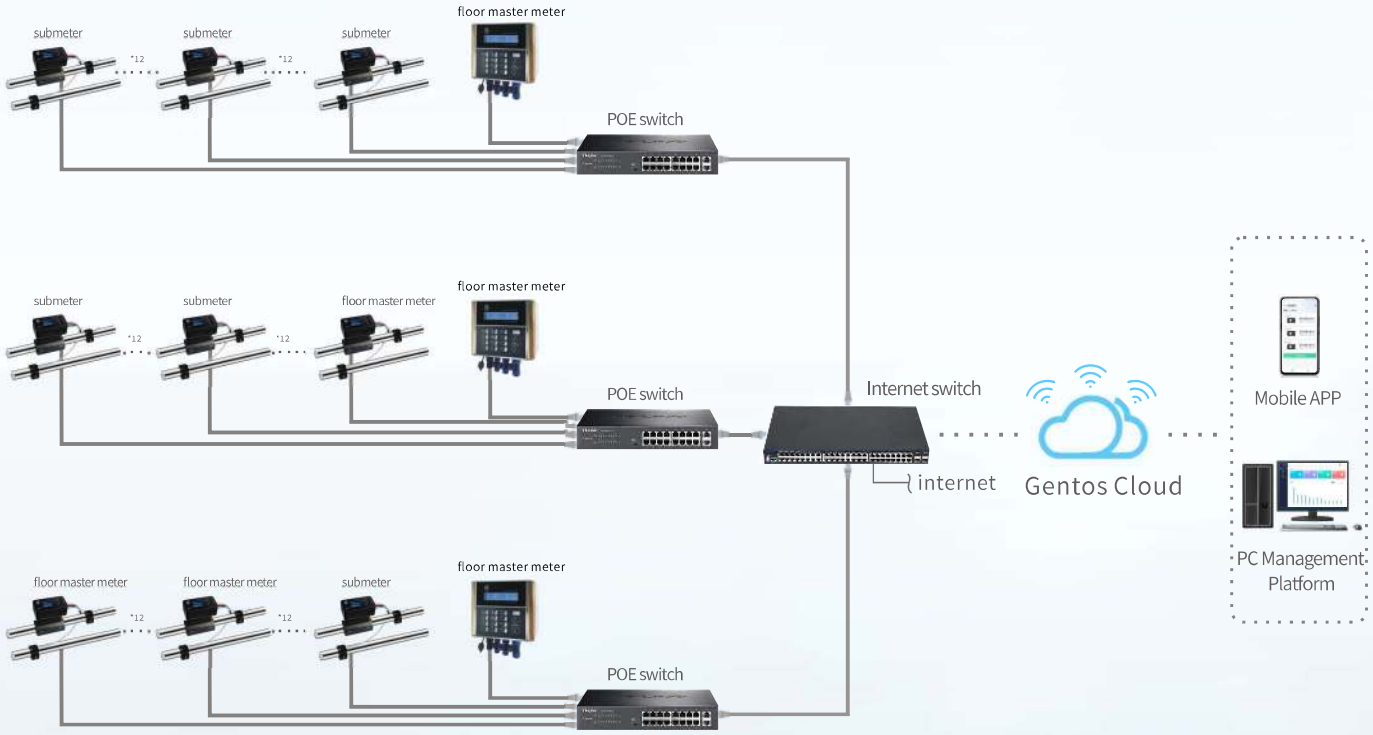



Application Topology

E3E is connected to the POE switch through the network cable, then the router connected to the POE switch is connected to the Internet. The meter flow data is uploaded to the cloud server via the Internet.

The MeterTube App software can be used to access cloud data and operate through mobile terminals and PC terminals. Connect E3E to an RJ45 (POE) interface of the POE switch that has been connected to the network through a network cable, at this time, the instrument should be in the power-on working state. The user uses an Android phone to scan the QR code of the MeterTube APP, follow the prompts to install the MeterTube software.

Notice: The next MeterTube app comes with reminder of Cloud Platform Subscription Renewal.



Installation Method

E3E is an integrated design, which is very simple to install. There is no need to break the pipe, stop the pump, or set parameters. The flow measurement can be achieved by directly tightening the screw on the pipe section and connecting the power supply.



1: Take out the device



2: Clip the upper and base bracket on the pipe



3: Tighten the screws



4: Connect the network cable to the POE switch, power on the instrument



5: Add pipe insulation

Product Model

Model Selection Model: E3E; Format: A-B

Model	Description of Transmitter	
E3E	Model Name: E3E Clip-on	Pipe Material: carbon steel, stainless steel, copper, PVC
	Ultrasonic Thermal Energy / BTU Flow Meter	Transmitter Installation Temperature: -10℃~50℃
	Velocity range: 0.03~5m/s	Transducer Measurement Medium: 0℃~60℃
	Accuracy: ±2%	Humidity: 0~99% RH, Non-condensing
	Repeatability: 0.2%	Cable: POE waterproof cable, standard length：0.5m
	Keyboard: 4 touch keys	Power supply: POE
	Display: 1.44"LCD colorful screen	Protection Rate: IP54
	Installation Method: Clip-on with screw tightening	Communication: Ethernet
	Power dissipation: 5W (dependent on function)	

Specifications

A	Pipe Range
Pipe OD Range	Unit: mm, Pipe Material(PVC,Carbon Steel, Stainless Steel)
	DN20(21~29),DN25(28~36),DN32(35~43),DN40(46~54),DN50(5967),DN65(72-80),DN80(83~91)
	Unit: mm,Pipe Material(Copper)
	DN25(21~29),DN32(28~36),DN40(35~43),DN50(46~54),DN65(59~67),DN80(72~80)

B	Pipe Material(Optional)
1	Carbon Steel
2	Stainless Steel
3	Copper
4	PVC

Selection Example: Model: E3E; Specification: DN20-1
For example: (Model: E3E Clip-on Ultrasonic Thermal Energy / BTU Flow Meter; DN20, Carbon Steel)

Product Series

Accuracy Rate 0.2
D118 High Dynamic response
D348D Plus Multipath
...

Accuracy Rate 0.5
D118i Insertion
D118i Portable
D118 Insertion/Clamp on
D348D Plus Multipath
...

Accuracy Rate 1.0
D116 Insertion/Clamp on
...

For HVAC
F5 wall mounted meter
F8 wall mounted meter
E5 wall mounted Ultrasonic Thermal Energy / BTU Flow Meter
E8 wall mounted Ultrasonic Thermal Energy / BTU Flow Meter
...

Clip-on Series
F2 Clip-on flow meter
E3 Clip-on Thermal Energy / BTU Flow Meter
E3E Clip-on Thermal Energy / BTU Flow Meter
...

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