Gentos Measurement & Control Co.,Ltd.

pFlow

F5E Ultrasonic Flow Meter



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Product Overview



F5E ultrasonic flowmeter combines ultrasonic flowmeter and Internet+, advanced modular . Combined with Gentos ultrasonic signal processing technology and unique flow algorithm, fluidflow in the pipeline can be accurately measured.

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

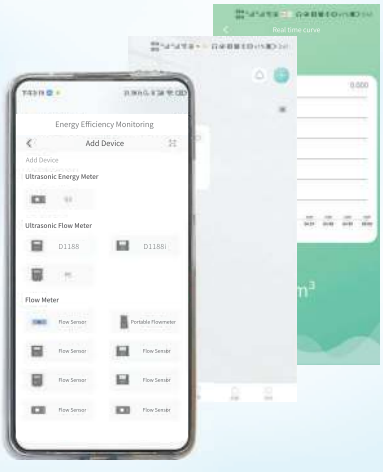
Cloud Service

The meter comes with MeterTube . Users can browse and view it in WEB terminal and APP through the account and password provided by Gentos.

The monitoring data of each meter (group) can be directly and clearly checked, and the corresponding data charts can be observed according to the relevant data;

It supports time billing and monitoring alarm function, and also has system management page, which is convenient to set user management, cost unit price, product management, device management, alarm monitoring, etc.





MeterTube - The intelligent air conditioning billing system detects unreasonable energy use problems in buildings through energy consumption data such as water consumption and cooling consumption, optimizes existing equipment, and also realizes automatic data collection, cost settlement, data analysis and control so as to achieve the purpose of saving money and manpower, saving energy and protecting the environment.

The system is mainly composed of meters, billing system and mobile application. The meter realizes the Ethernet function and can directly link to the cloud service to actively report the collected data to the database of the air conditioning billing system.

The cloud billing system realizes the inquiry, settlement and billing of tenants' air conditioning fees, and outputs various types of graphics, curves and reports about the air conditioning usage, which users can quickly inquire through their cell phones, greatly enhancing the efficiency of property management operations.

Product Features



Cloud service

With POE networking cloud service, users can view the data in real time on the mobile App, check the information dynamics anytime and anywhere, and remotely upgrade the program (Please consult us for details).



Energy efficiency monitoring

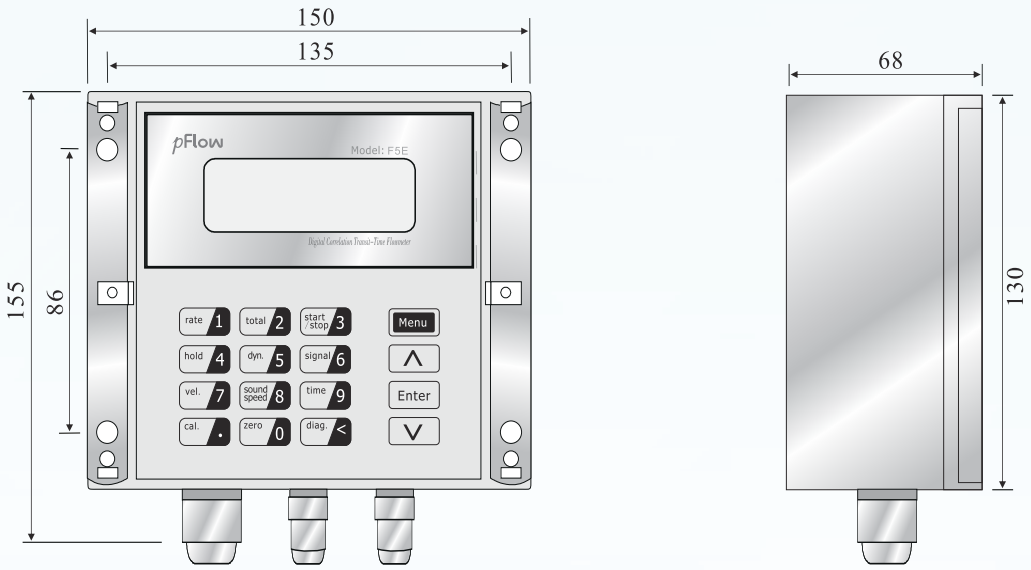
It can provide real-time monitoring and measurement data information of important energy consumption to the energy efficiency monitoring system, form real-time data and various data charts, and analyze and measure energy consumption.



POE communication

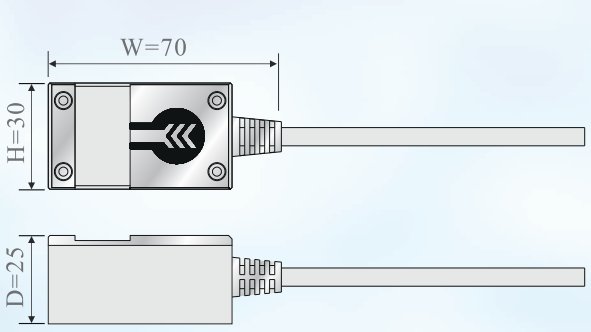
The meter adopts POE power supply and Ethernet communication to realize cloud data storage, and users can view measurement data in real time through Mobile and PC, which makes data reading and field maintenance more convenient.

Transmitter Dimensions (unit:mm)

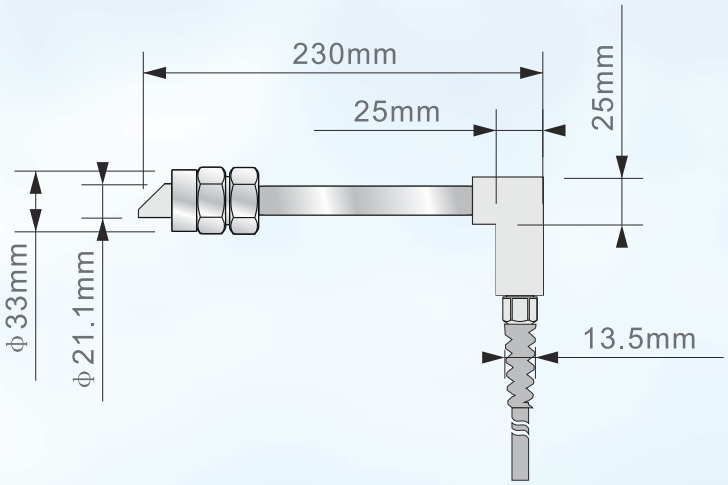


Transmitter Dimensional Drawing(mm)

Transducer Dimensions (unit:mm)

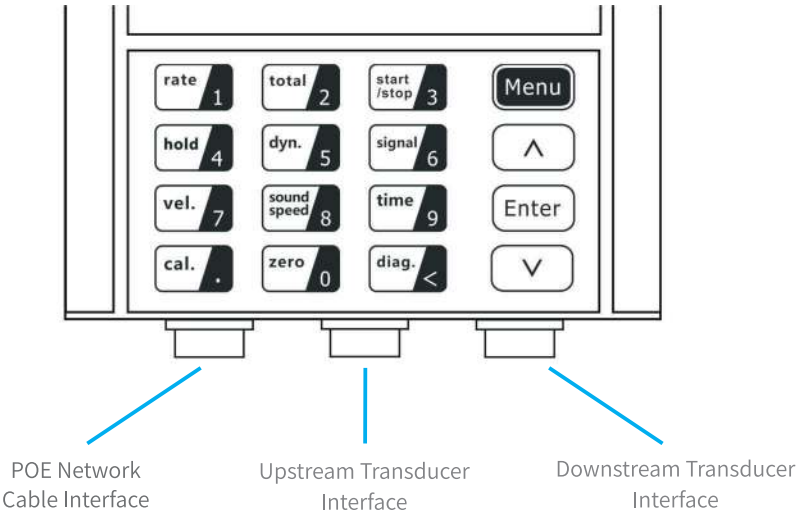


Clamp on Transducers



Insertion Transducers

Wiring Diagrams



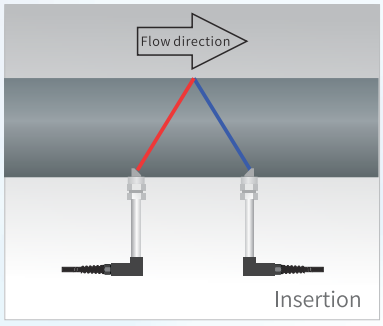
Transducer Installation Methods

V Method Mounting

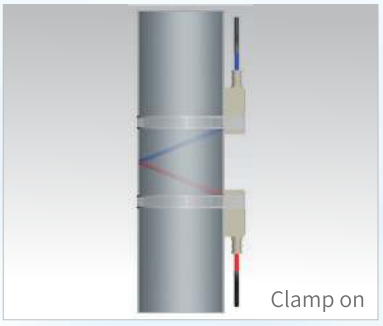
Pipe size for clamp on transducers: 25mm~400mm; Pipe size for insertion transducers: 50mm~600mm

(Same sides: The installation point should not be at the top or bottom of the pipe)


Side View



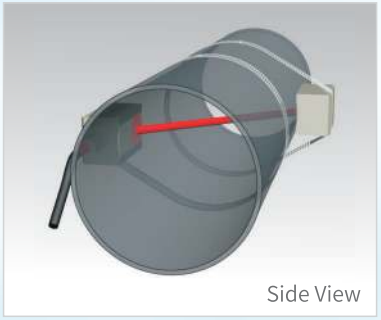
Insertion

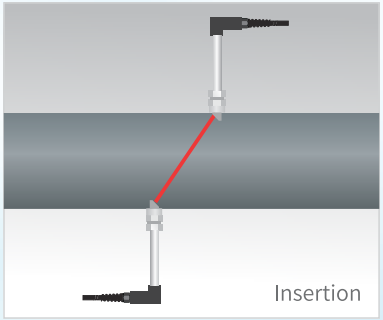

Clamp on

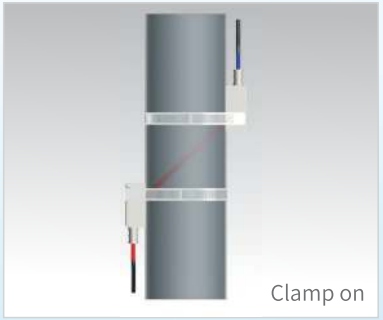
Z Method Mounting

Pipe size for clamp on transducers: 50mm~600mm; Pipe size for Insertion transducers:50mm-1200mm

(Opposite sides: The installation point shall not be at the top or bottom of the side pipe)


Side View


Insertion

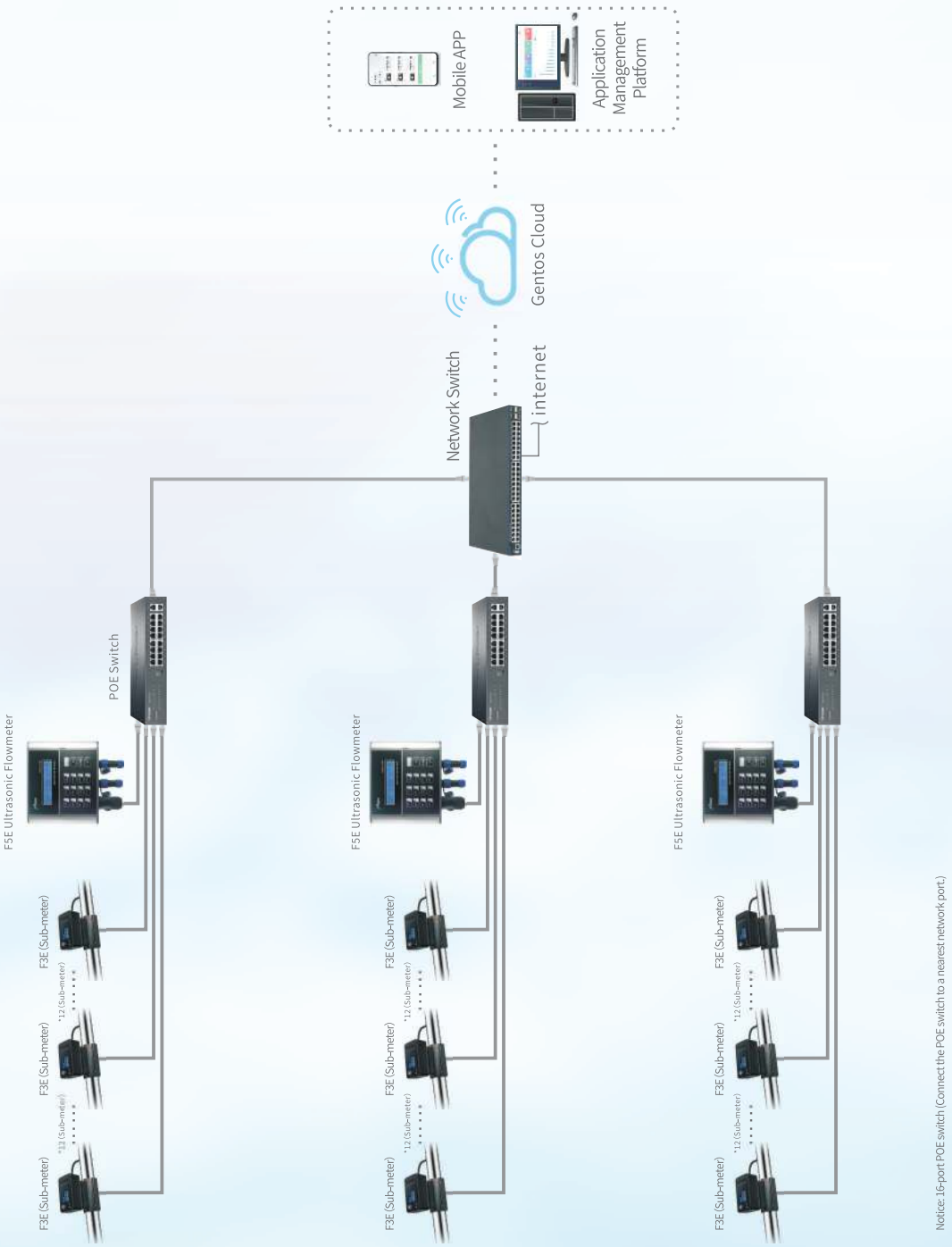

Clamp on

Application Topology

The F5E meter is connected to the POE switch through a network cable, and then the POE switch is connected to the Internet through a router. The meter flow data is uploaded to the cloud server via the Internet. The MeteTube APP can be used to access cloud data and operate through mobile terminals.

When F5E is connected to a RJ45(POE) Port of a POE switch which has access to Internet via a network cable, F5E is powered on.

Notice: Scan code to add the MeterTube APP, the new version of the APP will support the renewal prompt function.



Product Model

P/N Format : F5E -A-B-C-D-E-F

Model	Description of Transmitter	
F5E	Model Name: F5E ultrasonic flowmeter	Protection Level: Ip65
	Velocity range: 0.01~5m/s	Communication protocol: HTTP, MQTT protocol
	Flow accuracy level: level 1 (0.3~5m/s)	Operation temperature:-10~50°C
	Repeatability: 0.2%	Transducers temperature range: 0~80°C
	Keyboard: 16(4x4) keys	Humidity: Relative Humidity0～99%, No condensation
	Display: 20x2, alphanumeric, backlit LCD	
	Power supply: POE	Transmitter enclosure: PC/ABS enclosure

Specifications

A	**Installation method**
W	Clamp-on
B	**Transmission case**
1	Case: PC/ABS enclosure, IP65
C	**Description**
CP037E	Clamp on transducer Installation method: Clamp on Pipe size range: 25mm~1200mm Transducer cable length: 9m Transducer enclosure: CPVC Operating temperature: 0°C~80°C
W211E	Insertion transducer Installation method: Insertion Pipe size range: 50mm~1200mm Transducer cable length: 9m Transducer: Stainless steel, PEI. Bottom: Carbon steel Ball valve: brass Operating temperature: -10°C~80°C
D	**Cable length**
0 0 9	Cable length: 9m(standard)
X X X	Maximum lengthen to 305m (1000ft)
E	**Power converter**
T1	No need
T2	Required(In put 220V, Out put 12V, Load current 1A)
F	**Gentos Cloud**
1	No need
2	Basic system (Including COP, data report, monitoring alarm)
3	Billing system (Including COP, data report, monitoring alarm, Bill query)

Selection example: Model: F5E, Specification: W-1-CP037E-009-1-2
Description: Model F5E series ultrasonic flowmeter;
Specifications: Clamp-on, PC/ABS enclosure, CP037E transducer, 9m Cable, no power converter, basic system

*POE switch is not included

Specification

Transmitter	
Items	Content/Index
Measurement Object	
Medium	Water
Turbidity range	< 10g/L
Flow state	Stable flow, Fill full pipe
Working Temperature	-10°C ~50°C
Flow range	0.01~5m/s
Pipe Conditions	
Pipe material	Carbon steel, stainless steel, PVC
Pipe-lining	/
Straight pipe section	Meet requirements of 10D in front of the measuring point 5D behind the measuring point (more details see the instructions manual)

Transducer	
Items	Content/Index
Sensor type	Clamp on
Model	CP037E
Pipe range	DN25~DN1200
Humidity:	0~99%
Medium Temperature	0°C ~+80°C
Case material	CPVC
Protection Rate	IP68
Pressure Rate	/
Installation Method	support V, Z type
Size	W70 x H30 x D25mm (Not included cable length)
Sensor weight	0.8kg/ pair

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
...

Accuracy Rate 1.0
D116 Insertion/Clamp on
...

For HVAC
F5 wall mounted meter
F8 wall mounted meter
E8 wall mounted energy meter
F5E wall mounted meter
...

Clip-on Series
E3 Clip-on energy meter
F3 Clip-on flow meter
F3E Clip-on flow meter
...

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