



Gentos Measurement & Control Co., Ltd.

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F8 series ultrasonic flow meter is a state-of-the-art transit time ultrasonic flowmeter. Designed using the latest digital technology and low-voltage broadband pulse transmission.

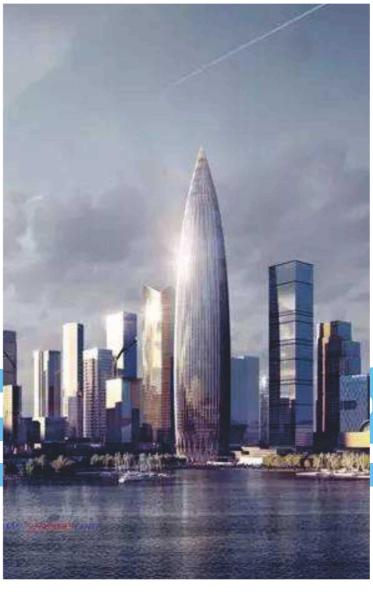
While principally designed for full-pipe clean liquid applications. The instrument is tolerant of liquids with small amounts of air bubbles or suspended solids found in most industrial environments.

Comparing with other traditional flowmeter or ultrasonic flowmeter, it has distinctive features such as high precision, high reliability, high capability and low cost, other features: TVT technology designed.

Less hardware components, low voltage broadband pulse transmission, low consumption power.

Clear, user-friendly menu selections make flowmeter simple and convenient to use. Daily, monthly and yearly totalized flow.

Parallel operation of positive, negative and net flow totalizes with scale factor (span) and 7 digit display, while the output of totalize pulse and frequency output are transmitted via relay and open collector.







1. Product Characteristics

The application range of the meter is very wide. The meter don't need to be set. After being installed, the meter can directly and singly meter cooling energy or heating energy(Heating and air-conditioning cooling can be measured).

2.Gentos icloud system service

WiFi connected icloud service. Users can inquire data on mobile terminal in real time and know each information at any time. Users can upgrade application by remote control(consult manufactures for details).

3. Energy efficiency monitoring

The meter has energy efficiency monitoring system. The measured data information can be monitored in real time and data curve can be observed in real time, generating data report.





4. Built in SD card data storage function

The meter has a built-in 8G big capacity SD card, with strong data acquisition and storage function. It collects the flow, flow rate, net accumulation, positive accumulation and negative accumulation corresponding to each time to ensure no data loss.

5. Easy installation

The meter supports wall mount installation and clamp on pipe installation. The clamp on pipe installation installs meter transmitter on measured pipe line, thus reducing the trouble of cable routing, which will save so much time and energy. And then the meter coordinates icloud service, every data will be great clear.

Applications

It can be widely used in saving-energy, air-conditioning, building automation system, data central, energy audit, HVAC, etc







The meter has Gentos icloud energy efficiency monitoring function. Users can log in the account and password that we offer to scan all data on WeChat public number-----SMART METERS and website.

Users can inquire directly and clearly all data of each meter, and can observe its corresponding data curve and data report according to related data.

Also, F8 can add meter billing system, has independent background management page. It is easy to set cost unit price, cost data and consumption. It can generate monthly cost bill and cost report.

Central air-conditioning is widely applied in business comprehensive complex, whose energy consumption covers more than 50% of energy consumption of the whole building complex. Thus, China proposes to create green saving-energy building environment. The actual energy consumption of air-conditioning is closely related to the interests and benefits of all users. According to the survey and statistics, because the air-conditioning fee is charged on the basis of accumulation, this phenomenon leads to a great waste of energy.

The difficult problem of central air-conditioning billing perplexes property companies all the time. They want to achieve accurate metering and reasonable billing like water meters, electricity meters and gas meters. We follow the law of market economy, and pay as much as you use, which makes all users satisfied, build saving-energy awareness, promoting building saving-energy.



Air_Conditioning_Expense_Report

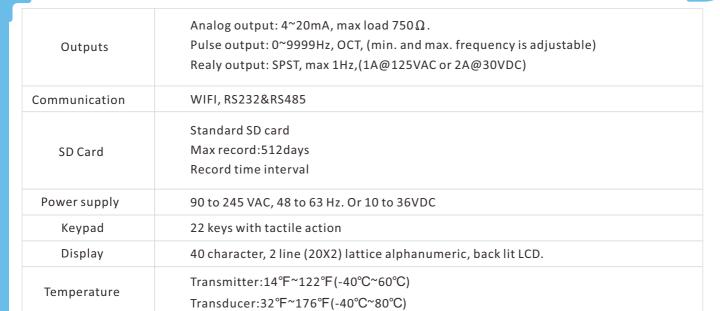
House number	Device name	Last reading date	Last reading (kwh)	Now reading date	Now reading (kwh)	Usage amount (kwh)	unit price	cost (\$)	Billing mode
1	А	Year-Month-Day	520118	Year-Month-Day	551992	31874	0.8	25499.2	Totalizer Cool
2	В	Year-Month-Day	1634	Year-Month-Day	1782	148	0.8	118.4	Totalizer Cool
3	С	Year-Month-Day	1867	Year-Month-Day	2128	261	0.8	208.8	Totalizer Cool
4	D	Year-Month-Day	3694	Year-Month-Day	4239	545	0.8	436	Totalizer Cool
5	E	Year-Month-Day	33978	Year-Month-Day	38788	4810	0.8	3848	Totalizer Cool
	Total				30110).4			



Specification

Flow range	$\pm 0.03 ft/s \sim \pm 40 ft/s \; (\pm 0.01 m/s \sim \pm 12 m/s)$
Accuracy	$\pm 0.5\%$ of measured value (for $\pm 1.5 ft/s \sim \pm 40 ft/s$)
Fluid	Water, Sea Water, Diesel Oil, Kerosene, Gasoline, Fuel Oil, Gasoline, Propane (-45°C), Alcohol, Butane (0°C) °CWater (125°C), Other
Pipe material	Carbon Steel, PVC, Stainless Steel, Asbestos, Cast Iron, Aluminum, Ductile Iron, Fiber Glass-Epoxy, Copper, Other
Pipe size	1 in to 200 in (25mm to 5000mm)

Function specifications

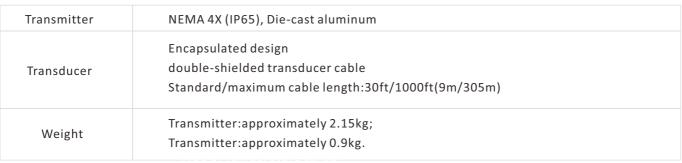




Humidity

Physical specification:

Up to 99% RH, non-condensing









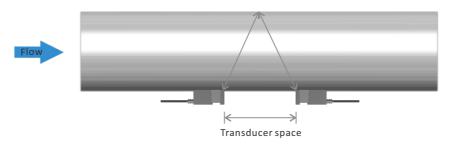
Transducer Installation Methods

V method measuring pipe size: 25mm-400mm



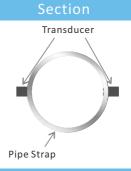


Top View

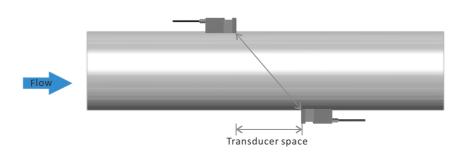


Z method measuring pipe size: 100mm-800mm



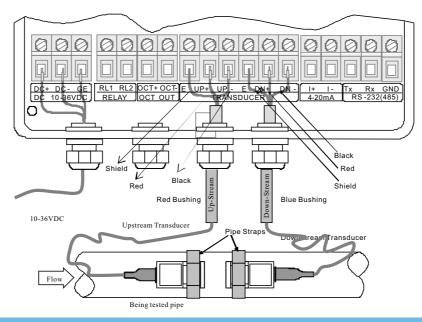


Top View

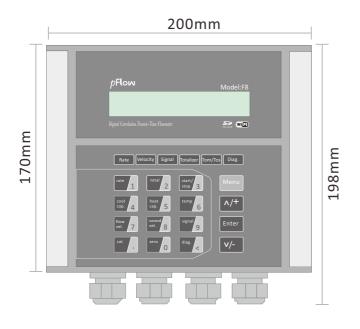


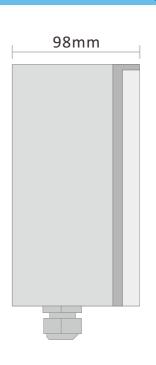


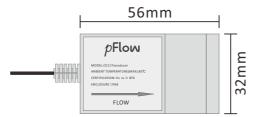
Wiring Diagram



Transmitter Dimensions









	Description
F8	Digital Correlation Transit Time Flowmeter Installation method: Wall mount 8G SD card high memory data logging, maximum memorize 512 days data. Flow Range: 0.03 ~ ±40ft/s (0.01~ ±12 m/s) Accuracy: ±0.5% (±1.6ft/s~±16ft/s) (±0.5m/s~±5m/s) Pipe Size Range: 1"~200"(25mm~5000mm) Keyboard:16 (4×4) touch keys Display: 20*2, alphanumeric, backlit LCD Power supply: 90-250VAC, 48-63 Hz or 10-36V DC Transmitter enclosure: IP65, die-cast aluminum machined enclosure Output: 4~20mADC, OCT pulse output, relay output Communication: WIFI, RS-232 / RS-485 terminal Modbus Protocol
	Output
1	4-20mA, OCT pulse output, relay output, RS-232 / RS-485, RTD temperature input
	Transmitter enclosure area classification
1	IP65, die-cast aluminum machined enclosure
	1F03, die-cast aufminiment machined enclosure
2	Explosion-proof enclosure, Ex dia II BT4
2	
2 C	Explosion-proof enclosure, Ex dia II BT4
	Explosion-proof enclosure, Ex dia II BT4 Type of transducers
С	Explosion-proof enclosure, Ex dia II BT4 Type of transducers Clamp on transducer, Operating temperature:-40°F ~ +176°F (-40°C ~ +80°C)
C CH	Explosion-proof enclosure, Ex dia II BT4 Type of transducers Clamp on transducer, Operating temperature:-40°F ~ +176°F(-40°C ~ +80°C) High temperature Clamp on transducer:32°F ~ +302°F(0°C ~ +150°C) Insertion transducer, Operating temperature:-40°F ~ +176°F(-40°C ~ +80°C) High temperature Insertion transducer:32°F ~ +302°F(0°C ~ +150°C)
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Type of Temperature sensor

Standard Model: F8-1-1-C-030

Description: Standard enclosure with Clamp-on transducers, OCT output, Relay output,

WIFI, RS485, 4-20mA output, RTD input, 9m cable.

Packaging SDHC Card Samisk Transmitter Transducer Pipe strips Coupling compound SD card