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TDS-100H Handhold Ultrasonic Flow Meter

Description

TDS-100H Handhold Ultrasonic Flow Meter is based on clamp-on transit-time flow measurement principle. It measures the flow rate of liquid in a pipe from outside of the pipe by using a pair of ultrasonic transducers. It is applicable for water, sewage, oils, chemicals, wastes, beverage and liquid food, solvents and other liquids.



TDS-100H Handhold Ultrasonic Flow Meter

Technical Parameter

- Accuracy: $\pm 1\%$ of reading at rates > 0.6 ft/s. $\pm 0.5\%$ with on-site calibration
- Linearity: 0.5%
- Repeatability: 0.2%
- Velocity: $\pm 0.03 \sim \pm 105$ ft/s ($\pm 0.01 \sim \pm 30$ m/s), bi-directional
- Pipe Size: 15 ~ 6,000mm
- Temperature: $-20 \sim 60$ °C; $0 \sim 160$ °C
- Display & Record: 4x16 English letters of Instantaneous flow, accumulative flow, velocity, Signal State, Time etc.
- Communication Interface: RS232, RS485, OCT output & 4~20mA etc.
- Power Supply: 100V-240VAC for the rechargeable 3 AAA Ni-H built-in batteries. It lasts 12 hours work while fully charged.

Optional Sensors



HS Frame Sensor DN 15-100 mm HM Frame Sensor DN50-700 mm S1 Sensor DN 15-100 mm



M1 Sensor DN50-700mm



L1 Sensor DN300-6000 mm

Standard Components



Main Set



M1 Type Sensor



Cables



Protect Box & Accessories

TDS-100F Wall-mounted Ultrasonic Flow Meter



TDS-100F1 Wall-mounted Ultrasonic Flow Meter



TDS-100F2 Wall-mounted Ex-proof Ultrasonic Flow Meter

Description

TDS-100F Wall-mounted Flow Meter uses multi-pulse ultrasonic time difference principle, double-balanced differential signal transmitter. It measures the flow rate of liquid in a pipe from outside of the pipe by using a pair of ultrasonic transducers. It is applicable for water, sewage, oils, chemicals, wastes, beverage and liquid food, solvents and other liquids.

Technical Parameter

- Accuracy: $\pm 1\%$
- Repeatability: 0.5%
- Measuring period: 500ms
- Transducer Temperature: $-40 \sim 160 \text{ } ^\circ\text{C}$
- Pipe Size: 15 ~ 6,000mm
- Display: Backlight LCD displays instantaneous flow,

- accumulative flow, velocity, Signal State, Time etc.
- Communication Interface: RS232, RS485, OCT output
- & 4~20mA, etc.
- Power Supply: AC220V or DC8-36V or AC7-30V
- Power Consumption: 2W

TDS-100M Heat-Module Ultrasonic Flow Meter



TDS-100M Ultrasonic Flow Meter-Heat Module

Description

TDS-100M Series Ultrasonic Flow meter-Heat Module is low cost ultrasonic flow meter, which is the latest innovation. It employs cutting-edge technology on ultrasonic transit-time measurement, digital signal processing and surface mounting electronics. It provides abundant capabilities for accurate liquid flow measurement from outside of a pipe. The proprietary signal quality tracking and self-adapting techniques allow the system to optimally adapt to different pipe materials automatically.

Technical Parameter

- Accuracy: $\pm 1\%$; Better than $\pm 1\%$ for velocity above 0.6ft/s
- Repeatability: 0.2%
- Response Time: 0.5s
- Velocity: 0-32m/s
- Pipe Size: 25 ~ 6,000mm
- Transducer Temperature: 0~100 °C
- Display & Records: LCD Display Instantaneous flow, accumulative flow, velocity, Signal State, Time etc. Keyboard for optional.
- Input: 2 Route 4-20mA analog input with accuracy 0.1%; Input pressure, liquid level, temperature signal etc. 2 Route, three lines of PT100 Platinum resistance.
- & 4~20mA, etc.

- Communication Interface: RS232, RS485, OCT output & 4~20mA, Relay Output etc.
- Power Supply: Isolation 8~36 VDC

TDS-100W Series Ultrasonic Water Meter



Thread Connection DN15-50mm

Description

Low power ultrasonic water meter is designed according to Europe alliance EN1434 standard and ultrasonic time-difference principle. High accuracy, better reliable, no moving part, no need to set data, install in any angle. It can replace other water meter.



Flange Connection DN50-1000mm

Technical Parameter

Accuracy : $\pm 1\%$

Repeatability : 0.5%

Measuring Range: DN15-1000mm

Working Pressure: Environment: $-40\text{ }^{\circ}\text{C}\sim 80\text{ }^{\circ}\text{C}$

Medium: $-40\text{ }^{\circ}\text{C}\sim 160\text{ }^{\circ}\text{C}$

Measuring period: 3S, 1~31S(selection)

Output: 4~20mA, RS232, RS485, MBUS, GPRS, CDMA

Power: One Li 3.6V Battery working for 6-10years, or two line power

Velocity of liquid: 0.01m/s

Protection Class: IP68, can working under water lower than 2 meters, ExdIIBT4

Connection Type: Overlook type、normal type、separate type

TDS-100P Portable Ultrasonic Flow meter

Description

Welcome to the TDS-100P (Version 13.0) ultrasonic flow meter that has been manufactured with patent technologies and is equipped with more functions and advanced performance than our previous versions.

Other outstanding features:

--the signal receiving circuits feature self-adapting performance so as to ensure

that the user can easily operate the instrument without any adjustment.

--the built-in rechargeable Ni-H battery can work continuously for about 20 hours without recharging.

The advanced circuit design, the integration of the latest semiconductors, the

user-friendly software interface both in English and Chinese languages, all these

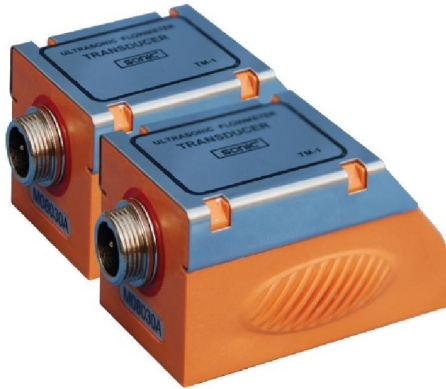
features combine to make the TDS-100P ultrasonic flow meter the best and the biggest seller on the Chinese market. Moreover, it is

gaining more and more

recognition on the international flow meter market.



TDS-100P Portable Ultrasonic Flow meter



sensor

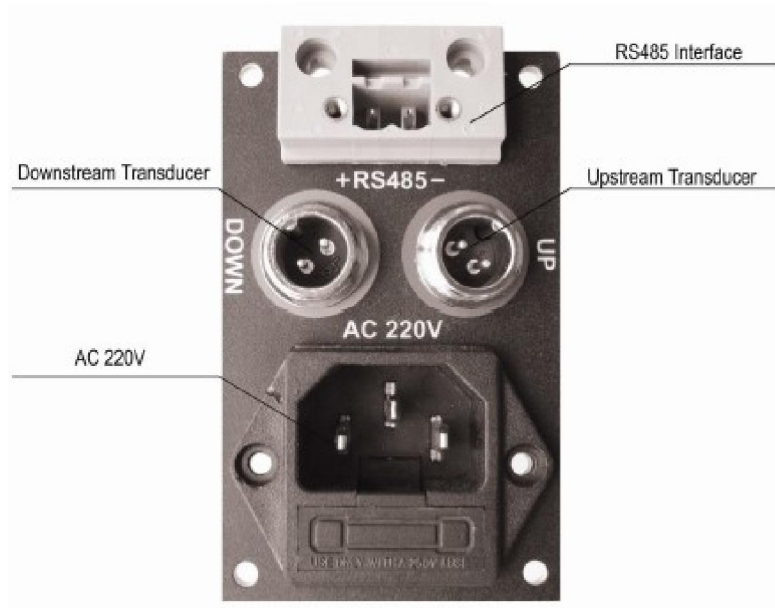
Technical Parameter

- High accuracy: Linearity: 0.5%, repeatability:0.2%, accuracy up to $\pm 1\%$.
- Non-contacting measuring: The ultrasonic flow meter will be adsorbed on the outside of pipe, and then finish the measuring. Non-intrusive, clamp-on transducer, no pressure drop, no pipe disturbance.
- Wide measuring range: Several types transducer for selection, pipe size from DN15mm to DN6000mm
- Chinese & English menu: Chinese & English display, easy to operate.
- Large capacity battery: Built-in rechargeable Ni-MH rechargeable battery, provide over 20 hours of continuous operation.
- Built-in printer: Built-in mini thermal printer with instant and timing print function, also you can print more than 20 kinds of measuring results if you set in advance.
- Built-in data logger: Uplink over 20 measuring data to computer or internet.

Front View:



Left View:



Optional Transducers

| Optional Transducers | Model | Description | Measuring range | Temperature |
|---|-------|-------------|-----------------|-------------|
| Small size transducer | TS-1 | Magnetic | DN15-100mm | -40~110°C |
| Medium size transducer | TM-1 | Magnetic | DN50-1000mm | -40~110°C |
| Large size transducer | TL-1 | Magnetic | DN300-6000mm | -40~110°C |
| High-temperature small size transducer | THS-1 | | DN15-100mm | -40~160°C |
| High-temperature medium size transducer | THM-1 | | DN50-1000mm | -40~160°C |

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