TDS-100

Series Ultrasonic Flow Meter

TDS-100H Portable handheld Ultrasonic Flow Meter

The ultrasonic flow meter is designed to measure the fluid velocity of liquid within a closed conduit. The transducers are a non-contacting, clamp-on type, which will provide benefits of non-fouling operation and easy installation.

Portable handheld ultrasonic flow meter

QUICK DETAILS

○ Product Material

   MOC: ABS

○ Product Color

   COLOR: GREY

○ Other Details

   Medium: ALL KINDS OF LIQUIDS.
   Power: Built-in 3.6 V battery
   Comm.: RS-232
   Protection: IP65
   SIZE: DN15 - DN100 (1/2 - 4 INCHES)
        DN50 - DN700 (2 - 28 INCHES)

Measuring principle:

Using the time difference measurement principle: one probe transmits a signal through the pipe wall, the medium, and the other side of the pipe wall, and is received by the other probe. At the same time, the second probe also transmits the signal and is received by the first probe. The influence of the medium flow rate has a time difference Δt. According to the calculation, the conversion relationship $V=(C^2/2L)×Δt$ between the flow velocity V and the time difference Δt can be obtained, and the flow rate value Q can be obtained.

PRODUCT DETAILS
DETAILS REFLECT QUALITY

MAINFRAME 01

1. Display: 4x8 Chinese characters or 4x16 English letters
2. Totalizer: 7-digit totals for net, positive and negative flow respectively.
3. Communication: RS-232
4. Meter, Feet, Cubic Meter, Liter, Cubic Feet, USA Gallon, Imperial Gallon (customized).

SENSOR 02

1. Workable for DN15mm-DN6000mm
2. Liquid Type: All kinds of liquids.
3. Installation: V-method,
                 Z-method,
                 W-method.

CABLES 03

1. 2x5m in length.
2. Optional 2x500 meters
3. Good anti-jamming

CASE 04

1. Aluminum alloy material.
2. Handheld and easy to carry.
3. Good look.

Handheld ultrasonic flow meter product features:

- Non-contact measurement method, small size, light weight and easy to carry.
- The sensor is easy to install and is used to measure various sizes of pipeline sound media.
- The measurement process does not need to damage the pipeline, no need to stop production, the sensor does not contact the measured medium, no pressure loss.
- Suitable for measuring metal pipes, plastic pipes and other sound-permeable materials.
- Built-in rechargeable battery for more than 12 hours of continuous operation.
- Intelligent on-site printing function to ensure the integrity of flow data.
- Single / dual channel
- Easy to carry, mobile measurement
- Suitable for measurement calibration
- Measurement thickness function

- **Open the box to see:**

- Product-1 unit
- User's Guide
- Product Qualification
- Packing list
- 1.5m×2 Transducer Cable
  2.Aluminum Carrying Case
  3.Battery Charger
  4. RS232 Cable
  5. Clamp Fixture
  6.5m Ruler

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TDS-100M Modular transit-time ultrasonic flow meter

The ultrasonic flow meter is suitable for the flow metering of networked monitoring projects such as supporting projects of system integrators, water resources or heating systems, and has the characteristics of small size, low price, simple operation and complete output interface.

TDS-100M Modular transit-time ultrasonic flow meter

QUICK DETAILS

◎ **Product Material**

  MOC: ABS

◎ **Product Color**

  COLOR: White

◎ **Other Details**

  Medium: All kinds of liquids.
  Power: 24VDC
  Comm.: RS-485
  Protection: IP65
  SIZE: DN15 - DN6000 (1/2 - 240 INCHES)

TDS-100M Ultrasonic flow meter product features:

- Display: 2x16 Chinese characters or 2x16 English letters.
- Totalizer: 9-digit totals for net, positive and negative flow respectively.
- Communication: RS-485
- Meter, Feet, Cubic Meter, Liter, Cubic Feet, USA Gallon, Imperial Gallon (customized)
- Workable for DN15mm-DN6000mm
- Liquid type: all kinds of liquids.
- Installation: V-method, Z-method, W-method
- Cables:2*5m in length, optional 2*500 meters, good anti-jamming
- Easy to fix the sensors
- Material in good quality

PRODUCT DETAILS
DETAILS REFLECT QUALITY

Open the box to see:

- Product-1 unit
- User's Guide
- Product Qualification
- Packing list
- Accessories:
- 1.5m×2 Transducer Cable for sensor
- 2. Clamp Fixture
- 3. Spare Connectors

TDS-100F1 Wall Mount Ultrasonic Flowmeter

Designed to measure the fluid velocity of the liquid in a full or closed pipe, and it is both easy to install and use. It operates according to the difference in the Transit Time of Flight measured and determines the flow velocity by measuring the travel time of a pulse from one transducer to the next.

Features

- Better than 1% accuracy
- Pipe diameters from 1/2 to 28"
- Protection class: IP65
- 4 x 4 key tactile-feedback membrane keypad
- Power supply AC 85 to 264 V or isolation DC 8 to 36 VDC
- LCD with backlight 2 x 20 letters

Applications

- Power plants
- Water, wastewater treatment plants
- Mining and metallurgy plants
- Petroleum process monitoring and control
- Chemical process monitoring and control

Specifications

Accuracy	Better than ±1% accuracy
LCD Display	2 x 20" LCD Display (2 line x 20 characters) 4 x 4 key tactile-feedback membrane keypad
Size	Pipe diameters from 1/2 to 28"
Protection Category	IP65
Output Signal	Modbus RS485, 4 to 20 mA, and Pulse
Power Supply	85 to 264 VAC or 24 VDC power supply
Environment Temperature	-22 to 176°F (-30 to 80°C)

Open the box to see:

- Product-1 unit
- User's Guide
- Product Qualification
- Packing list
- Accessories:
- 1.5m×2 Transducer Cable for sensor
- 2. Clamp Fixture
- 3. Spare Connectors