

Dalian Teren Instruments Co., Ltd

1-101, No. 33, Huidayuan,Dalian,China



CATALOG

COMPANY OVERVIEW

Teren instruments was established in 2007, located in the beautiful coastal city –Dalian, China. We main focus on running of instruments, main cover **Electromagnetic Flow Meter, Ultrasonic Flow Meter, Ultrasonic Water Meter, Turbine Flow Meter, Vortex Flow Meter**, and other series industry instruments.

We have our own technical team, and we have overcome many technical difficulties on fluid analysis under the guidance of Professor **Jing Xian Wang**, such as "High frequency Multiple-pulse Ultrasonic launch drive", "**Hydraulic pipeline efficient circulation Washing Device**" and so on, meanwhile, Jing Xian Wang professor have got several patents, like **ZK-120**. At the same time, professional design team, sales team, Production team, channel team, dispatch team make us provide Products, solutions and Services more efficiency.

As a combination of production and trade company, we are always devoted to produce products and find wider products channel.

Our products gain acceptance from users in domestic and aboard for years. Professional team, top quality, best service, reliability, stability, and scientific management, that's why we are trustworthy.

OUR FACTORY



Electromagnetic flow meter

Accuracy: $\pm 0.5\%$

Minimum Conductivity: $> 5\mu\text{s/cm}$

Nominal meter size: 10-2200mm(3/8 to 86 inch)

Fluid temperature: -25 to 60°C (-13 to 140°F); -25 to 180°C (-13 to 356°F)(opt.)

Ambient temperature: -10 to 60°C (14 to 140°F)

Electrode material: SS316L(Standard), others can be customizable
(e.g. Hc, Hb, Ti, Ta, Pt)

Current Output: 0 to 10mA or 4 to 20mA

Frequency Output: 0 to 5000Hz with photoelectric isolation

Pulse Output: Adjustable from 0.001 to 1000Ltr/Pulse

Communications(optional): RS-485

Power supply: 85 to 250VAC; 20-36VDC

DTI-E82



DTI-E6000

Pipe diameter: 100~3000mm

Velocity range: 0.1 ~ 10m / s

Accuracy: 0.5 ~ 10m / s: $\pm 1.5\%$ FS

0.1 ~ 0.5m / s: $\pm 2.0\%$ FS

0.1 ~ 10m / s: $\pm 2.5\%$ FS

Conductivity: $> 5\mu\text{s/cm}$

Fluid temperature: -20 to 60°C

Ambient temperature: -20 to 130°C

Pressure: 1.6MPa

Protection level: IP65, IP68

Electrode material: 316L stainless steel

Output signal: 4 ~ 20mA; RS485; HART; MODBUS

Working power: 220VAC; 24VDC; ripple $\leq 5\%$

Power: 1.6MPa



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Electromagnetic flow meter **Converter**

DTI-E82**DTI-E82S****DTI-E2000 (Battery powered)**

Electromagnetic flow meter **Accessories**

PCB**Excitation coil****Electrode**

Ultrasonic flow meter

Liquid Types: Virtually all commonly used liquids(full pipe)
 Repeatability: Better than 0.2%
 Accuracy: Better than $\pm 1\%$
 Flow Velocity: 0~ $\pm 32\text{m/s}$
 Liquid Temp: 32F~320F (0°C~160°C)
 Display: LCD,tactile keypad
 Measuring Period: 500m/s (twice /s)
 signal output: RS485 output; 4-20mA or 0-20mA active output;
 OCT output: RS-232, RS-485(optional)
 protection level: mainframe:IP65, transducer:IP:68
 Pipe Material:All metals, most plastics, fiber glass, etc. Allow pipe liner
 Power: AC 85—264V or DC 8VDC-36VDC

Wall-mounted Type

DTI-100F

DTI-200F

DTI-100F5



DTI-200B

DTI-200F2

DTI-100M



Flow

Level

Temp

Heat

Tools

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DTI-200F3 DTI-100F3 DTI-200F4



Transducer	Picture	Measuring Range	Temperature
DTI -TS1		DN15~DN100	-40~90℃
DTI -TM1		DN50~DN700	-40~90℃
DTI -TL1		DN300~DN6000	-40~90℃
DTI -TS-2-HT		DN15~DN100	-40~160℃
DTI -TM-2-HT		DN50~DN700	-40~160℃
DTI -TL-2-HT		DN300~DN6000	-40~160℃
DTI -TC-1		Above DN50	-40~160℃
DTI -C11		Above DN50	-40~160℃
DTI-TC-1-2		Above DN80	-40~160℃
DTI-C12		Above DN80	-40~160℃
DTI -TC-2		Above DN50	-40~160℃
DTI -TC-3		Above DN200	-40~160℃
DTI -π		DN10	-40~160℃
		DN15~DN32	-40~160℃
DTI-G1		DN40~DN1200mm	-30~160℃

Portable Type

DTI-200P

DTI-100H

DTI-200H



Transducer	Picture	Measuring Range	Temperature
DTI -S1		DN15~DN100mm	-40~90℃
DTI -M1		DN50~DN700mm	-40~90℃
DTI -L1		DN300~DN6000mm	-40~90℃
DTI -HS1		DN15~DN100mm	-40~160℃
DTI -HM1		DN50~DN700mm	-40~160℃
DTI -HL1		DN300~DN6000mm	-40~160℃
DTI -HS-DS		DN15~DN100mm	-40~90℃
DTI -HM-DS		DN50~DN300mm	-40~90℃
DTI -HS-HT		DN15~DN100mm	-40~160℃
DTI -HM-HT		DN50~DN300mm	-40~160℃
DTI-EB-1		DN300~DN700mm	-40~90℃
DTI-EB-1-HT		DN300~DN700mm	-40~160℃

Ultrasonic water meter

Items	Parameters
Executive standard	ISO4064-2014 、 GBT778-2018
Measurable fluid	Water, sewage, seawater, Liquid full of pipeline
Fluid temperature	0.1-30 °C
Work environment	temperature: -30-45°C; humidity:100%(RH)
Bearable pressure	1.6MPa, 2.5MPa alternatives
Pressure loss	DN15-DN40 ΔP40; ≥DN50 ΔP10
The sensitivity grade of	U3
The sensitivity grade of	D0
Climate and mechanical	C class
Electromagnetism	E2 class
Communication interface	RS485/USART/infrared interface, M-BUS;NB-Iot
Output signal	OCT alternatives
Power supply	2 built-in lithium batteries/external DC8-24V power
Protection grade	IP68
Power consumption	Standard condition < 30uA, working 20 years above



DN15-DN40 copper



DN50-DN150 dual channel



DN200-DN500

Sandwich-type Ultrasonic Water Meter



Pipe diameter: DN50~DN150

Ultrasonic Heat Meter

Items	Parameters
Nominal diameter	DN15-DN400
Executive standard	GB/T32224-2020
Temperature range	Nominal diameter<DN50:4-90℃; Nominal diameter≥
Temperature difference	0-85K(thermometric starting temperature difference
Minimum pairing	±0.1℃
Maximum working pressure	1.6MPa,2.5MPa optional
Accuracy grade	Grade 2
Temperature sensor type	PT1000,DIN/IEC751B
Protection grade	IP68
Working power supply	Powered by 3.6V lithium battery, each battery can work continuously for 6 years above.
	DC8-24V (Specify when ordering)
	AC220V, 50HZ (Optional power adapter, specify when
Working environment	Environment class A/ class B/class C/class D
Storage temperature	-25~55℃
Communication data	Optical interface;RS485/M-BUS;Wireless-
Installation position of Heat	Water supply end(Specify when installing at the



DN15-DN40

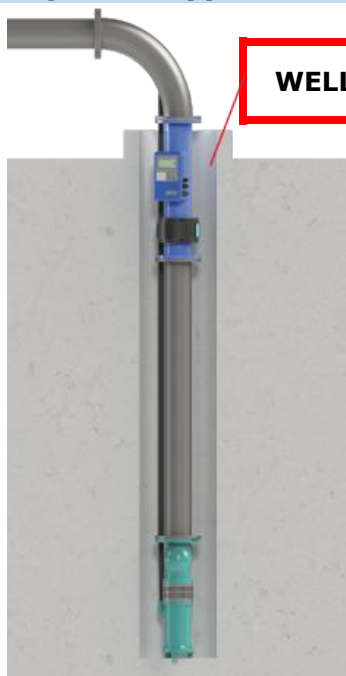


DN50-DN150



DN200-DN400

Pump tube type Ultrasonic water meter



WELL

>Designed for pump pipe water extraction and can be installed in the water well

>Range ratio R63

>Power Supply

Built-in 3.6V lithium battery / DC8-24V external power supply

>Complete range

Pipe diameter: DN50~DN150; Type: integrated, split

>Multiple installation methods

The host and the measuring pipe can be installed in one piece or separately

>0.1~30℃ fluid can be measured

>Communication

Standard RS485/ infrared communication interface, can also support wireless transmission or connection control system

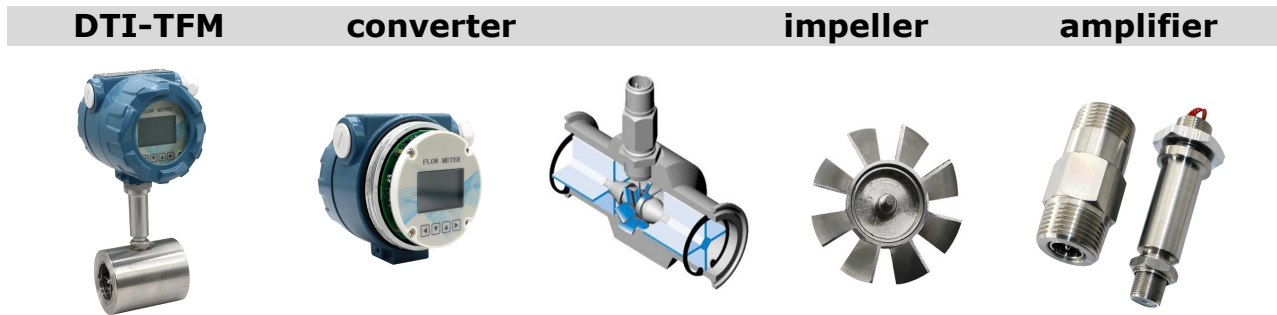
>IP68 protection class

>Through-diameter design, no pressure loss

>Ultrasonic measurement, no wear parts

Turbine flowmeter

Diameter	In line:DN4-DN200 Insertion:DN100-DN2000
Accuracy	In line:±0.5grade;±1.0grade Insertion:±1.5grade ;±2.5grade Higher accuracy could reach up to 0.2 grade
Environment temperature	-20℃~50℃
Medium temperature	-20℃~80℃
Atmospheric pressure	86KPa~106KPa
Measuring ratio	1:10;1:15;1:20
Material	304L,316L .etc
Nominal pressure	1.6 Mpa 、 2.5Mpa 、 6.4Mpa 、 25Mpa
Explosion proof class	ExdIIBT4
Connection	Thread,Flange clamp-on,Flange,insertion.etc
Display	Local display,Far EasTone
Temp and pressure compensation	Optional
Output	Pulse,4~20mA,RS485
Power supply	DC5~24V, AC 220V,lithium battery
Protection grade	IP65



Ultrasonic level meter

Display the liquid level and distance;
 Automatic detection of on-site electrical interference, and interference suppression;
 Internal integrated temperature sensor, and real-time temperature compensation for sound velocity;
 Have 4-20 mA current simulation, RS485 communication test, and other functions;
 Use the keys to carry out on-site parameter setting;
 All input and output lines have the overvoltage and overcurrent protection;
 Non-contact measurement, and long service life;



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Other flow meters

Vortex flow meter

Oval gear flowmeter

metal tube float flowmeter



Glass tube float flowmeter

Coriolis mass flowmeter

Thermal mass flowmeter



Ultrasonic open channel flowmeter



Appendix

More information, Please consult with Teren Instruments.