

TDS-100H Digital Handheld Ultrasonic Flow Meter



Features

- TDS-100H handheld ultrasonic flow-meter is based on the advanced circuit design, integration of the latest semiconductors, the user-friendly software interface and small-sized PCB board.
- High quality , reasonable and competitive price
- 0.5% of linearity
- 0.2% of repeatability
- 1% of accuracy
- Positive/negative/net flow totalizer
- 4 line LCD display
- RS232 communication interface/OCT output
- English interface or bilingual interface in Chinese and English
- Non-contacting transducers, clamp-on or mounting rack type, easy to install and operate
- Built-in rechargeable Ni-H battery will last over 12 hours
- The TDS-100H ultrasonic flowmeter is designed to measure the fluid velocity of liquid within a closed conduit. It operating on ultrasonic principle. The transducers are a non-contacting, clamp-on type, which will provide benefits of non-fouling operation and easy installation.

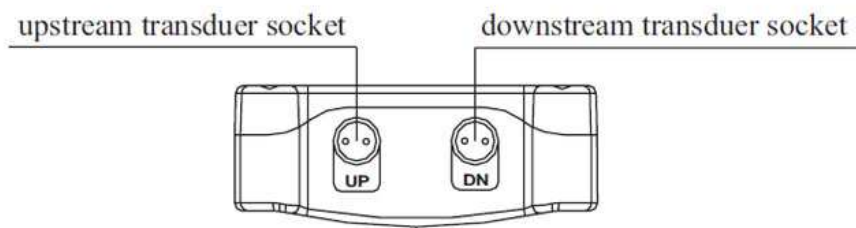
The specifications as follow:

- Linearity: 0.5%
- Repeatability: 0.2%
- Accuracy: $\pm 1\%$ of reading at rates $> 0.2 \text{ mps}$
- Response time: 0-999seconds, user-configurable
- Velocity: $\pm 32 \text{ m/s}$
- Pipe Size: 20mm-6000mm
- Rate units: Meter, Feet, Cubic Meter, Liter, US Gallon, Imperial Gallon, Million Gallon, Cubic Feet, US Barrels, Imperial Barrels, Oil Barrel. User configurable.
- Totalizer: 7-digit totals for net, positive and negative flow respectively
- Liquid types: Virtually all liquids.
- Security: Setup values Modification Lockout. Access code needs unlocking.

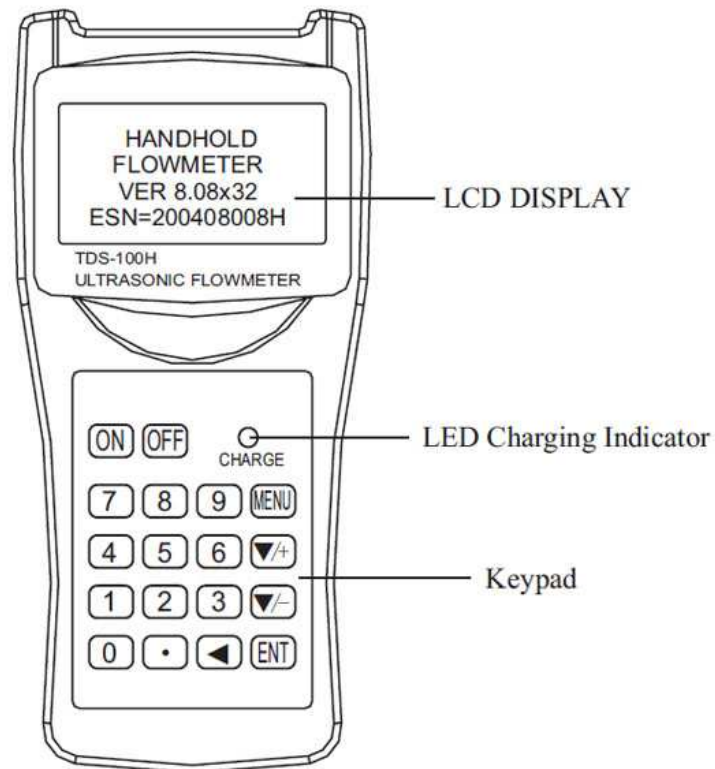
Display: 4*16 English letters

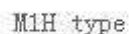
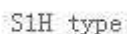
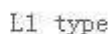
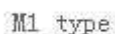
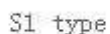
- Communication Interface: RS-232C, baud-rate: from 75 to 57600. Protocol made by the manufacturer and compatible with that of the FUJI ultrasonic flowmeter. User protocols can be made on enquiry.
- Transducers: Model M1 for standard, other 3 models for optional
- Transducers Cord Length: Standard 2*10 meters, optional 2*500 meters
- Power: 3 AAA NI-H built-in batteries. When full recharged it will last over 10 hours of operation. 100V-240V AC for the charger.
- Data Logger: Built-in data logger can store over 2000 lines of data.
- Manual Totalizer: 7-digit press-key-to-go totalizer for calibration.
- Housing Material: ABS
- Case Size: 100 x 66 x 20mm
- Handset Weight: 514g (1.2 lbs) with batterie

Top view



Front view





Parameters	HS	HM	S1	M2	L1	S1H	M1H
Pipe size(mm)	DN15-100	DN50-700	DN15-100	DN50-700	DN300-6000	DN15-100	DN50-700
Pipe size(inch)	1/2"-4"	2"-28"	1/2"-4"	2"-28"	12"-240"	1/2"-4"	2"-28"
Material	Aluminum Alloy		ABS			Special High-Temperature Materials	
Frequency	1MHZ						
Installation Method	V(N/W)	V/Z	V(N/W)	V/Z	Z	V(N/W)	V/Z
Calibration	Calibrate with the main unit						
Magnetism	Magnetic				No Magnetic		
Temperature	32Fahrenheit-158Fahrenheut(0Centigrade-70Centigrtade)					32Fahrenheit-320Fahrenheut(0Centigrade-160Centigrade)	
Protection Class	IP65						
Dimension(mm)	200×25×25	280×40×40	45×30×30	60×45×45	80×70×55	90×85×24	90×82×29
Weight(g)	250	1080	75	250	650	94	150
Liquid Types	water, sea water, waste water, chemical liquids, oil, crude oil, alcohol, beer, etc.						
Suspention Concentration	≤20000ppm,may contain very small amount of air bubbles.						
Pipe Material	All metels, most plastics, fiber glass, etc.						
Dedicated Shielded Tranducer Cable	Standard length 5 meter ×2, can be extended to 10 meter ×2 o						