

# Hand held ultrasonic flow meter



Main Unit

TDS-100H hand held ultrasonic flow meter is a battery power ultrasonic flow meter ,the capability of a full size flow meter. it is carefully designed for portability and easy for use .

- Better than 1% accuracy
- 0.2% of repeatability
- 4×16 English letters LCD display
- Operate with clamp on transducers
- RS 232 interface or 1-channel isolated OCT output
- Pipe diameters from 15mm to 6000mm
- Ni-MH battery operation of over 12 h
- 90~230VAC power supply
- Internal data logger

## Outline Diagram



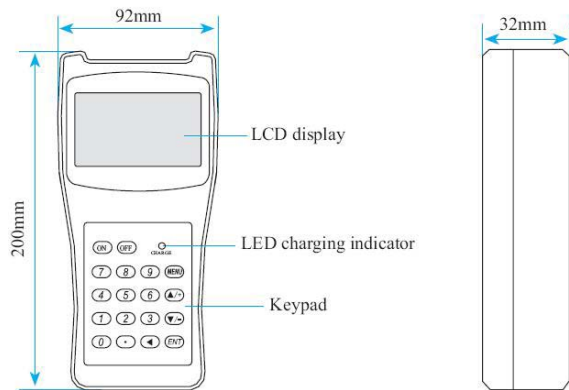
Dedicated shielded transducer cable 5 meter × 2



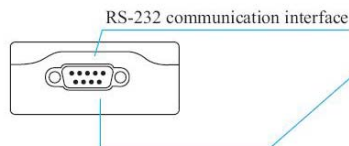
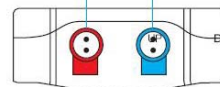
HM-type clamp-on transducer for DN50~DN700mm



Aluminum carrying case



upstream transducer socket      downstream transducer socket



- 1 Charge the battery anode
- 2 RXD
- 3 TXD
- 4 Null
- 5 GND: GND
- 6 OCT output
- 7 Null
- 8 Charge the battery cathode
- 9 The ring input to Connect the modem

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## Transducer Options



S2-type transducer



M2-type transducer



L2-type transducer



HS-type transducer



HM-type transducer

## Transducer Parameters

Technical parameters	HS-type	HM-type	S2-type	M2-type	L2-type
Pipe size (mm)	DN15~100	DN50~700	DN15~100	DN50~700	DN300~6000
Pipe size (inch)	( 1/2~4" )	( 2~28" )	( 1/2~4" )	( 2~28" )	( 12~240" )
Material	Aluminum alloy		Plastic alloy		
Frequency	1MHz				
Installation method	V ( N/V )	V/Z	V(N/W)	V/Z	Z
Calibration	Calibrate with main unit				
Magnetism	Magnetic				
Temperature	32F~320F ( 0°C~160°C )				
Protection class	IP65				
Dimension (mm)	200×25×25	280×40×40	45×30×30	71×37×40	91×52×44
Weight (g)	250	1080	75	259	535
Liquid types	water、 sea water、 waste water, chemical liquids, oil, crude oil, alcohol, beer, etc.				
Suspension concentration	< 10,000ppm and particle size less than 80um. May contain very small amount of air bubbles.				
Pipe material	carbon steel、 stainless steel、 cast iron、 copper、 PVC、 aluminum、 fiberglass-epoxy, ect. Allow pipe liner				
Cable	Shielded transducer cable. Standard length 5m×2. Can be extended to 10m×2 or 15m×2				