

TDS-100HM Handheld Ultrasonic Flow Meter



Features

- High accuracy, better than 1%
- Wide measuring range
- Pipe size DN15...6000 mm
- Convenience for routing inspection

|Introduction|

TDS-100H handheld ultrasonic flow meter is designed to work with clamp-on sensors to measure the liquid flow within a closed pipe without any insertion mechanical parts. Mainly be used for routing inspection or pipe monitoring, very convenience for use. It is controlled by a micro-processor system which contains a wide range of data that enables it to be used with pipes with an outside diameter ranging from 15 mm up to 6000 mm (Depending on model) and constructed of almost any material.

| Applications |

Piping systems / Energy-saving monitoring / Water-saving management / Industrial use / Semiconductor manufacturing / Food manufacturing industry / Cooling tower / Power plant



Choose Installation Optional

Input

Velocity range	0 ±10 m/s				
Repeatability	±0.2% 1 channel OCT pulse output, pulse wi 1000 ms (Default is 200 ms)				
Accuracy	±1%				
Unitsnication	m3 , ft3 , lites , US gallon , barrel ETC. Isolation of 2:0 communication interface				
Power supply	Three internal 1.2 V, 2000 mAH rechargeable Ni-MH battery can work 12 hours fully charged. Can achieve				
	continuous measurement with AC 100 240 V power adapter.				
Power consumption	1.5 W				
Dimension storage	200H x 90W x 33D mm.KBIT				
Installation	Upstream 10D, downstream 5D, 30D away from the pump outlet (D for diameter)				

Environmental

Liquid type	Water, sea water, waste water, alcohol, beer, various kinds of oil etc which can conduct ultrasound single				
	uniform liquid				
Temperature	Main unit : -20 60°C				
	Sensor : -30 160°C				
Liquid temperature	-30 160°C				
IP rating	IP65				

Material

Pipe material	Steel, stainless steel, cast iron, copper, PVC, aluminum, FRP, etc.
Pipe size	DN15 DN6000 mm
Cable	5 m (Standard set, 2 cable)

Standard type clip box





Flow- TDS

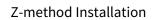
Choose Installation Optional

Schematic diagram	Installation			
	Clamp on transducer Easy to install and no need to cut off the flow, no pressure loss Different transducer from DN15 DN6000. Different transducer for temperautre -30 160°C.			
	Bracket mounting Reduces installation time, improve installation accuracy. Easy installation no need cut the flow, no pressure loss. Different transducer from DN15 DN700. Different transducer for temperautre -30 160°C.			

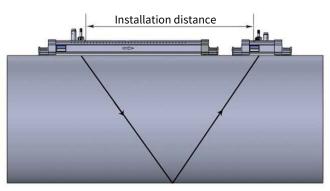
| How to Use the Extension Bracket |

V-method Installation

V-method installation is the moswidely used mode for daily measurement with pipe inner diameters ranging from 15 millimeter to 200 millimeter. It is also called reflective mode or method.

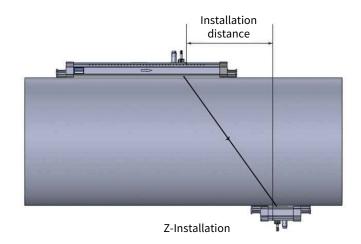


Z-method is commonly used when the pipe diameter is between 300 millimeters and 500 millimeters.



V-Installation

Optional Transducer |



Туре	Picture	Size	Model	Measuring range	Temp.	Dimension (mm)
Standard clamp on type		Small	S1	DN15 DN100	-30160°C	45x25x32
		Medium	M2	DN50 DN700	-30160°C	64x39x44
		Large	L2	DN300 DN6000	-30160°C	97x54x53
Standard bracket type	and the second s	Small	HS	DN15 DN100	-30 90°C	318x59x85
		Medium	НМ	DN50 DN300	-30 90°C	568x59x85
		Large(without sensor)	HL	DN300 DN700	-30 90°C	188x59x49