# 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 | Specification |

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Velocity range	$0\ldots\pm10$ m/s
Repeatability	±0.2% Lchannel OCT pulse output, pulse wi 1000 ms (Default is 200 ms)
Accuracy	±1%
Unitsnication	m3 , ft3 , lites , US gallon , barrel ETC. Isolation of 232 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. ( BIT
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





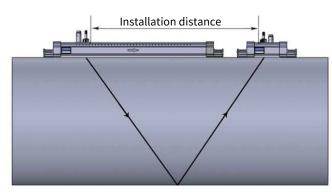
# | Choose Installation Optional |

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

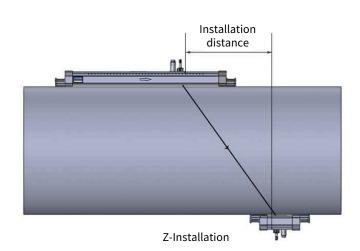
V-method installation is the moswidely used mode for daily measurement with pipe inner diameters ranging from 15 millimeter to 200 millimeter. It is also called reflective mode or method.



V-Installation

#### **Z-method Installation**

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



# Optional Transducer

Туре	Picture	Size	Model	Measuring range	Temp.	Dimension (mm)
	<b>6</b>	Small	S1	DN15 DN100	-30160°C	45x25x32
Standard clamp on type		Medium	M2	DN50 DN700	-30160°C	64x39x44
		Large	L2	DN300 DN6000	-30160°C	97x54x53
		Small	BS	DN15 DN100	-30 90°C	318x59x85
Standard bracket type		Medium	ВМ	DN50 DN300	-30 90°C	568x59x85
		Large(without sensor)	BL	DN300 DN700	-30 90°C	188x59x49