

# OI-TUF-2000H Handheld Ultrasonic Flowmeter



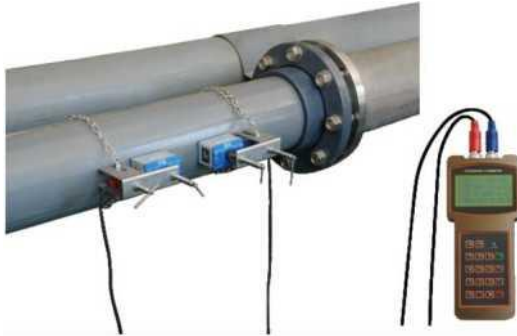
## | Features |

- **High Accuracy measuring**  
Accuracy: +1 %, linearity: 0.5%, repeatability: 0.2%.
- **Wide measuring range**  
Several types transducer for select ion, measuring pipe size from DN 25mm to DN6000mm.
- **Large capacity battery**  
Built-in rechargeable Ni-MH battery, provide over 12 hours of continuous operation.
- **Non-intrusive measuring**  
Non-intrusive, clamp-on transducer, no pressure drop, no pipe disturbance.
- **Support Multiple Language Menu**  
Chinese, English, Italian and other languages can be customized.
- **Large LCD display**  
Display instantaneous flow, accumulated flow (positive, negative and net), velocity, working status etc.
- **Built-in data logger**  
Built-in 24K data logger, store over 2000 lines measuring data.

### | Liquid Type |

This flowmeter can be virtually applied to a wide range of measurement. A variety of liquid applications can be accommodated: ultra-pure liquids, potable water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant effluent, etc

### | Measuring Diagram |



#### | Clamp on Transducers |

- Install the clamp on transducer(with magnet)on the pipe, can finish the flow measurement. No pressure drop, no need cut off pipe.
- Several types transducers for selection, measuring pipe size from DN15mm to DN6000mm.
- Several types transducers for selection,

#### | Clamp on Mounting Bracket Transducers |

- Bracket transducer can simplify the ultrasonic flowmeter installation process, shorten installation time and improve installation accuracy.
- Install the clamp on bracket transducer(with magnet)on the pipe, can finish the flow measurement. No pressure drop, no need cut off pipe.
- Several types bracket transducers for selection, measuring pipe size from DN 15mm to Dn700mm.
- Several types bracket transducers for selection, measuring temperature range from -30°C to 160°C

### | Applications |

1. Water supply and drainage
2. Heating
3. Construction of Energy-saving
3. Metallurgy
4. Petrochemical
5. Power



| Parts Descriptions |



32Kbit Data Storage

It is convenient for measuring data storage, if use our company's "Flow data analysis, statistical software" for processing, can finish the tabulation, statistical, data analysis, printing reports, production flow curve and other functions.



Display

4X16character screen' with backlight can display instantaneous flow, (positive, negative and net) velocity, working status accumulated flow

Aluminum alloy Carrying Case



| Optional Transducer |

Types	Spec.	Model	Measurement Range	Temperature	Dimension
Clamp on	Small Size	TS-2	DN25~DN100	-30~90°C	45x25x32mm
	Medium Size	TM-1	DN50~DN700	-30~90°C	64x39x44mm
	Large Size	TL-1	DN300~D6000	-30~90°C	97x54X53mm
High Temperature Clamp on	Small Size	TS-2-HT	DN25~DN100	-30~160°C	45x25x32mm
	Medium Size	TM-1-HT	DN50~DN700	-30~160°C	64x39x44mm
	Large Size	TL-1-HT	DN300~D6000	-30~160°C	97x54x53mm
Mounting Bracket Clamp on	Small Size	HS	DN25~DN100	-30~90°C	318X59x85mm
	Medium Size	HM	DN50~DN300	-30~90°C	568x59x85mm
	Extended	EB-1	DN300~DN700	-30~90°C	188x59x49mm
High Temperature Mounting Bracket Clamp on	Small Size	HS-HT	DN25~DN100	-30~160°C	318x59x110mm
	Medium Size	HM-HT	DN50~DN300	-30~160°C	568x59x110mm
	Extended	EB-1-HT	DN300~DN700	-30~160°C	188x59x49mm

| Datasheet |

Items		Performance & Parameter
Convertor	Principle	Transit-time ultrasonic flowmeter
	Accuracy	±1%
	Display	4X16 character LCD with backlight, support the language of Chinese, English and Italy
	Data Interface	Insulate Rs232 serial interface, upgrade the flowmeter software by computer
Pipe Installation Condition	Pipe Material	Steel, Stainless steel, cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allowed
	Pipe Diameter	25~6000mm
	Straight Pipe	Transducer installation should be satisfied: upstream 10D, downstream 5D, 30D from the pump
Measuring Medium	Type of Liquid	Single liquid can transmit sound wave, such as Water (hot water, chilled water, city water, sea water, wastewater, etc.) ; Sewage with small particle content; Oil (crude oil, lubricating oil, diesel oil, fuel oil, etc.); Chemicals (alcohol, etc.); Plant effluent ; Beverage ; Ultra-pure liquids, etc.
	Temperature	-30~160°C
	Turbidity	No more than 10000ppm and less bubble
	Flowrate	0~±10m/s
Working Environment	Temperature	Convertor : -20~6(TC; Flow Transducer : -30~160°C
	Humidity	Convertor: 85%RH ; Flow Transducer: Ip67
Power Supply	3 AAA built-in Ni-MH batteries 1.2V(for over 12 hours of operation). 90V-260V AC adapter	
Power Consumption	1. 5W	
Case Material	ABS	
Dimension	200*93*32MM(Convertor)	

| Ordering Code |

OI-TUF—2000H — Optional Transducer - Cable length.

5 5mX2(Standard)  
10 10mX2

Example: OI-TUF -2000H +HM++10m

PS: Standard configuration = OI-TUF -2000H (convertor)+TM-1 +5M\*2 cable + Stretcher + Couplant(1 pc)+ Carrying Case + Ruler