Flow-HFUM

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Features

- High accuracy, better than 1%
- Wide measuring range
- Support data storage
- Convenience for routing inspection

| Introduction |

HFUM 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





| Specification |

Input

Velocity range $0 \dots \pm 10 \text{ m/s}$

Output

Output signal	1 channel OCT pulse output, pulse width 6 1000 ms (Default is 200 ms)
Accuracy	±1%
Communication	Isolation of 232 communication interface, can upgrade flow meterthrough PC
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
Data storage	32 K BIT built-in data storage, can store two thousand rows of data
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)		

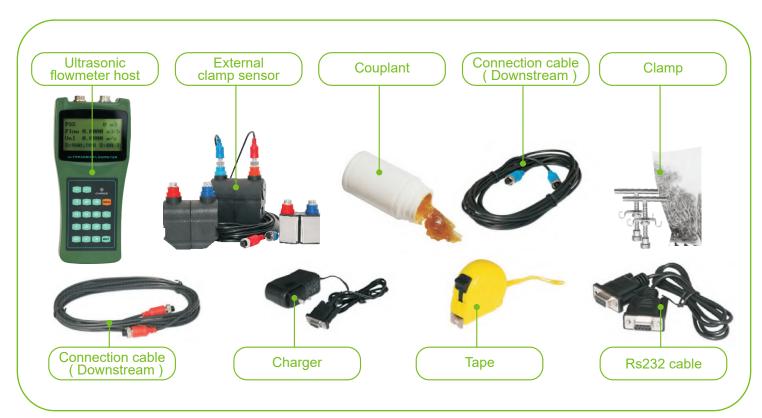
Standard type clip box	Bracket type box



| Handheld Ultrasonic Flow Meter Components |









| The Main Components Feature |





Clamp on transducer

Clamp on transducer with bracket





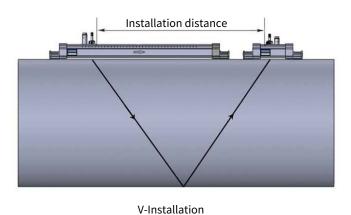
| Choose Installation Optional |

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.
	Reduces installation time, improve installation accuracy. Easy installation no need cut the flow, no pressure loss.
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| How to Use the Extension Bracket |

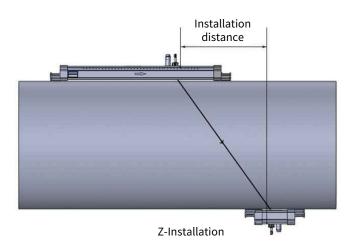
V-method Installation

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 Installation

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





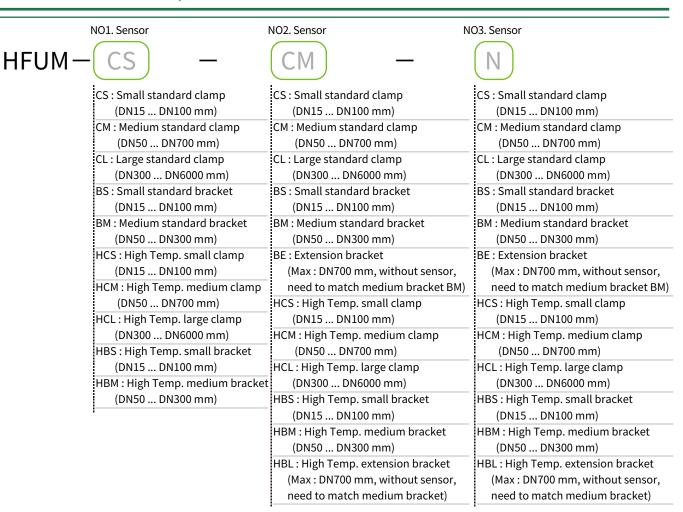
| Optional Transducer |

Туре	Picture	Size	Model	Measuring range	Temp.	Dimension (mm)
Standard clamp on type	S	Small	CS	DN15 DN100	-30 90°C	45x25x32
		Medium	СМ	DN50 DN700	-30 90°C	64x39x44
		Large	CL	DN300 DN6000	-30 90°C	97x54x53
		Small	BS	DN15 DN100	-30 90°C	318x59x85
Standard bracket type		Medium	ВМ	DN50 DN300	-30 90°C	568x59x85
		Extension	BE	DN300 DN700	-30 90°C	188x59x49
		Small	HCS	DN15 DN100	-30 160°C	45x25x32
High Temperature Clamp on Type		Medium	НСМ	DN50 DN700	-30 160°C	64x39x44
		Large	HCL	DN300 DN6000	-30 160°C	97x54x53
High Temperature bracket type		Small	HBS	DN15 DN100	-30 160°C	318x59x85
		Medium	НВМ	DN50 DN300	-30 160°C	568x59x85
		Extension	HBL	DN300 DN700	-30 160°C	188x59x49





Ordering Guide |



| Additional Option Test Report | For more detailed information please contact us.



YUDEN-TECH CO.,LTD. Calibration Laboratory - (ILAC / TAF) Test report. (TAF accreditation: 3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Flow transmitter	Water flow rate : 2.54 m³/h30 m³/h (42.3 L/min 500.0 L/min)
Flow transmitter	Water flow velocity : 0.2 m/s 3 m/s

ISO 9001

Project	Measurand level or range
Airvologity / Airvolumo	Air velocity: ≦ 120 m/s
Air velocity / Air volume	Air volume : 0.5 m³/h 1000 m³/h

^{*} Calibration Condition: Measuring tube DN40 (1.5"), DN80 (3")