

HFUM

- 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.





Handheld Ultrasonic Flow Meter

| Specification |

ltem	Function & Parameter		
Accuracy	±1%		
Velocity range	0 ±10 m/s		
Pipe size	DN15 DN6000 mm		
Liquid temperature	-30 160°C		
Liquid type	Water, sea water, waste water, alcohol, beer, various kinds of oil etc which can conduct ultrasound single uniform liquid		
Pipe material	Steel, stainless steel, cast iron, copper, PVC, aluminum, FRP, etc.		
Output signal	1 channel OCT pulse output, pulse width 6 1000 ms (Default is 200 ms)		
Communication	Isolation of 232 communication interface, can upgrade flow meter through 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		
Temperature	Main unit:-20 60°C Sensor:-30 160°C		
IP rating	IP65		
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)		
Cable	10 m(Standard set, 2 cable)		

Standard type clip box Bracket type box



Handheld Ultrasonic Flow Meter

| 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.

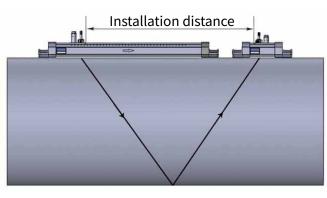
Different transducer from DN15 ... DN700.

Different transducer for temperautre -30 ... 160°C.

How to Use the Extension Bracket

V-method Installation

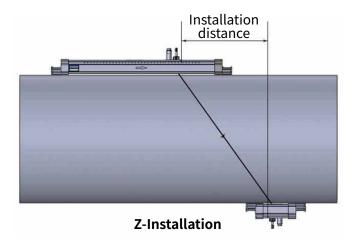
V-method installation is the moswidely used mode for daily measurement with pipe inner diameters ranging from 15 millimeter to 200 millimeter. It is also called reflective mode or method.



V-Installation

Z-method Installation

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





Handheld Ultrasonic Flow Meter

| Optional Transducer |

Туре	Picture	Size	Model	Measuring range	Temp.	Dimension (mm)
Standard clamp on type	00	Small	CS	DN15 DN100	-30 90°C	45x25x32
	66	Medium	СМ	DN50 DN700	-30 90°C	64x39x44
		Large	CL	DN300 DN6000	-30 90°C	97x54x53
Standard bracket type		Small	BS	DN15 DN100	-30 90°C	318x59x85
		Medium	ВМ	DN50 DN300	-30 90°C	568x59x85
		Large(without sensor)	BE	DN300 DN700	-30 90°C	188x59x49

Ordering Guide

HFUM-



NO1. Sensor

CS:Small standard clamp (DN15 ... DN100 mm)

CM: Medium standard clamp (DN50 ... DN700 mm)

CL:Large standard clamp (DN300 ... DN6000 mm)

BS:Small standard bracket (DN15 ... DN100 mm)

BM: Medium standard bracket (DN50 ... DN300 mm)

NO2. Sensor



CS:Small standard clamp (DN15 ... DN100 mm)

CM: Medium standard clamp (DN50 ... DN700 mm)

CL:Large standard clamp (DN300 ... DN6000 mm)

BS: Small standard bracket (DN15 ... DN100 mm)

BM: Medium standard bracket (DN50 ... DN300 mm)

BE:Extension bracket(Max:DN700 mm, without sensor, need to match medium bracket BM)

N:None

NO3. Sensor



CS:Small standard clamp (DN15 ... DN100 mm)

CM: Medium standard clamp (DN50 ... DN700 mm)

CL:Large standard clamp (DN300 ... DN6000 mm)

BS:Small standard bracket (DN15 ... DN100 mm)

BM: Medium standard bracket (DN50 ... DN300 mm)

BE:Extension bracket(Max:DN700 mm, without sensor, need to match medium bracket BM)

N:None

