

## ULTRASONIC FLOW METER

### HANDHELD ULTRASONIC CLAMP-ON

Flow Measurement  
& Monitoring



#### DESCRIPTION

The hand held flow meter is a battery-powered ultrasonic flow meter with the capability of a full-size flow meter. It is based on clamp-on transit-time flow measurement principle. In general, the liquid should be full in the pipe and should contain very little particles or bubbles. The hand held flow meter utilizes proprietary technologies such as advanced signal processing, low-voltage transmitting, and small signal receiving with self-adapting. The built-in -rechargeable Ni-H battery can work continuously for more than 10 hours without recharge. The hand held flow meter has also a built-in data-logger, which allows storage of 2000 lines of data.

#### FEATURES

- ✓ Economic, non intrusive
- ✓ Built-in-data-logger
- ✓ Easy set up and installation
- ✓ Wide range of pipe sizes & materials
- ✓ Suitable for lined pipes
- ✓ Velocity, volumetric, totalised flow
- ✓ Key pad for easy operation
- ✓ Lightweight
- ✓ Long operating time
- ✓ No pressure drop, no moving parts
- ✓ No leaks, no contamination

#### TECHNICAL FEATURES

<b>Accuracy</b>	± 1 to 3%
<b>Linearity</b>	0.5%
<b>Repeatability</b>	0.2%
<b>Converter</b>	Transit Time
<b>Display</b>	4 lines of 16 characters; Back lit LCD display
<b>Power Supply</b>	3 AAA NiH rechargeable batteries (10 hours operation at full charge) battery charger 110 – 240 VAC
<b>Operating Temperature</b>	Transducers: -40 to 110°C; Handset: -10 to 55°C
<b>Storage Temperature</b>	-40 to 70°C
<b>Data Logger</b>	2000 lines of data
<b>Transducer Mounting</b>	Magnetic or chain or strap
<b>Transducer Cables</b>	3 m
<b>Input</b>	2 Transducer plugs
<b>Output</b>	RS232 75 to 115,200 bps
<b>Measurement Parameters</b>	Instantaneous flow rate, Velocity Totalized flow (4 totalizers)

I-SYSTEM MEASUREMENT  
[www.ismesb.com](http://www.ismesb.com)



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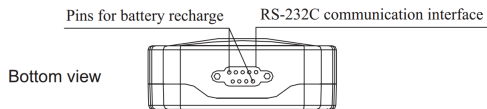
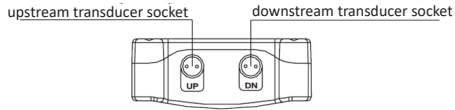
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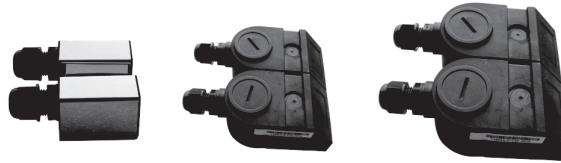
## DIMENSION/DRAWING

### Converter:

Top View



### Transducers:

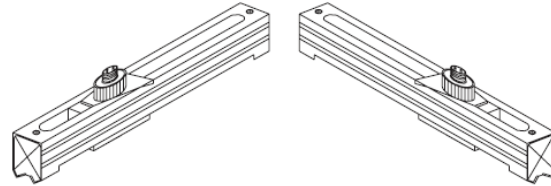


S1

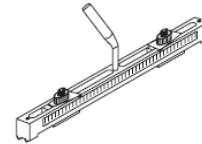
M1

L1

Standard-HM (50mm - 700mm)



Standard-HS (20mm - 100mm)  
(Optional Accessories)



## CODES AND REFERENCES

Code	Reference	Description
2000	UFM-1001H	Ultrasonic Transmitter
S01	S1	Transducer with Range: ½" to 4" (DN15 to DN100)
M02	M1	Transducer with Range: 2" to 28" (DN50 to DN700)
L03	L1	Transducer with Range: 12" to 240" (DN300 to DN6000)
T001	HS	Transducer with Small Rack
T002	HM	Transducer with Medium Rack

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