

## Handheld Ultrasonic Flowmeter



The ultrasonic flow meter is designed to measure the fluid velocity of liquid within a closed conduit. The transducers are a non-contacting, clamp-on type, which will provide benefits of non-fouling operation and easy installation. 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. Because the instrument and transducers are non-contacting and have no moving parts, the flow meter can not be affected by system pressure, fouling or wear.

### Features

- 0.5% of linearity
- 0.2% of repeatability
- Bilingual interface in English
- Patent balanced lower-voltage multi-pulse
- built-in date totalizers ultrasonic igniting
- built-in data-logger
- Work properly near transverters
- 0.5 second totalizing period
- 100 Pico-second resolution



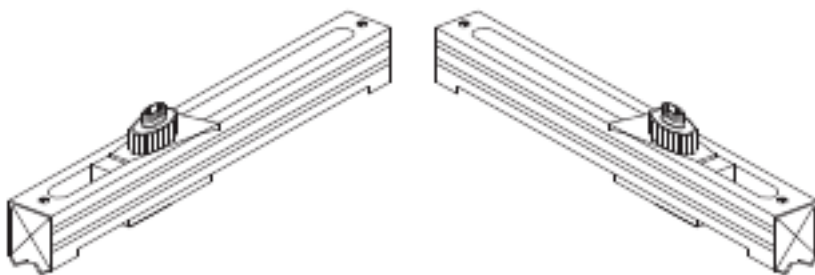
## Specifications

Linearity	0.5%
Repeatability	0.2%
Accuracy	±1% of reading at rates>0.2 mps
Response	0-999 seconds, user-configurable
Velocity	±32 m/s
Pipe Size	20mm-6000mm
Totalizer	7-digit totals for net, positive and negative flow respectively
Liquid Types	Virtually all liquids
Security	Setup values Modification Lockout.
Display	4x16 English letters
Transducers	Model M1 for standard, other 3 models for optional
Transducer Cord Length	Standard 2x10 meters, optional 2x 500 meters
Power Supply	3 AAA Ni-H built-in rechargeable batteries which will last over 10 hours of continuous operation when fully recharged, or from an external AC/power supply from the battery charger.
Data Logger	Built-in data logger can store over 2000 lines of data
Manual Totalizer	7-digit press-key-to-go totalizer for calibration
Housing Material	ABS
Case Size	100x66x20mm
Handset Weight	514g (1.2lbs) with batteries

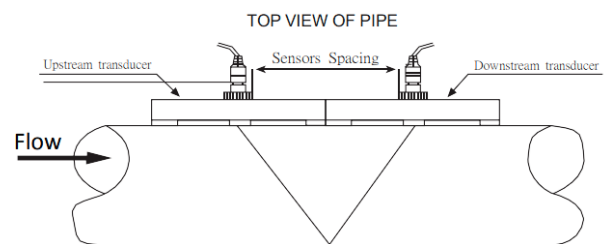
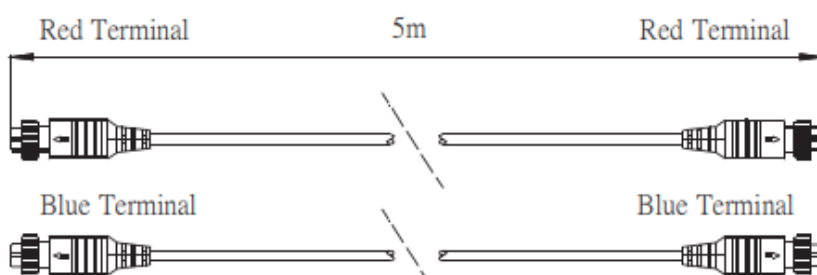
## Transducers

The transducers used by the series ultrasonic flow meter are made of piezoelectric crystals both for transmitting and receiving ultrasonic signals through the wall of liquid piping system. The measurement is realized by measuring the traveling time difference of the ultrasonic signals.

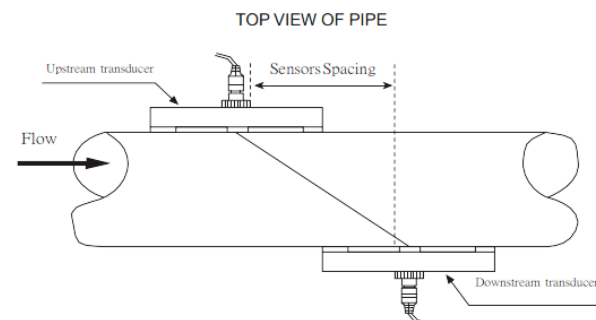
Standard-HM (50mm-700mm)



Cable 5m x2



V-method Installation

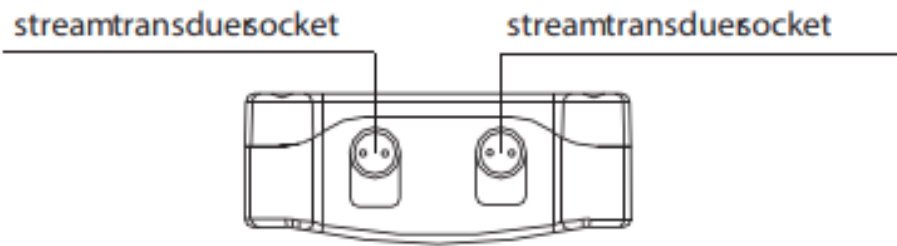


Z-method Installation

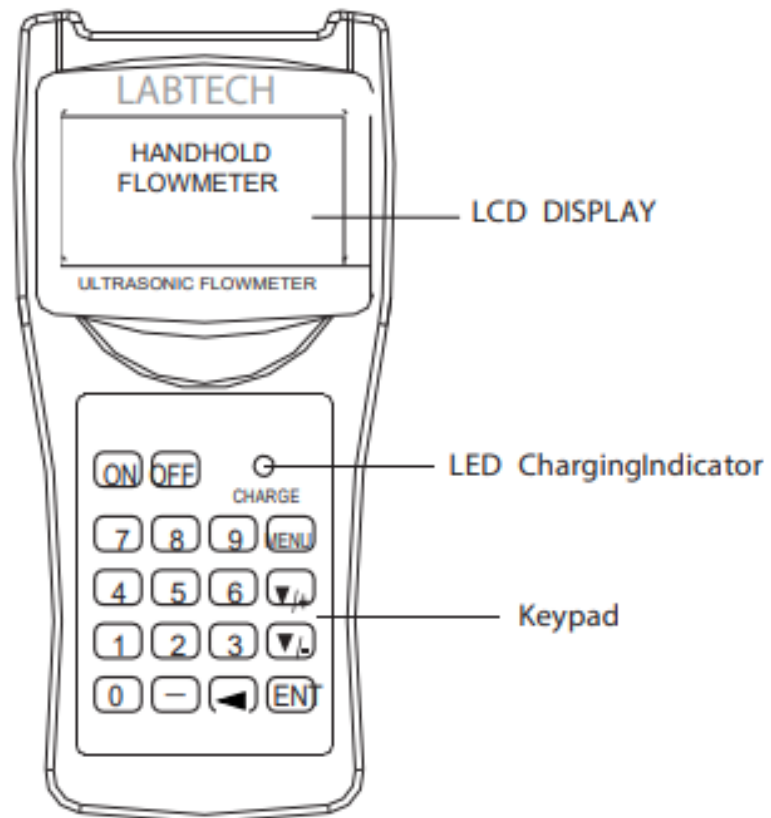


## Converter

Top view



Front view



Bottom view

