

EU-108 Separated Fixed Ultrasonic Flowmeter

EU-108 Ultrasonic Flow Meter is a fixed mounted flow meter, the flowmeter is separated with the transducer. Their electronic enclosures are rated as IP65 (NEMA 4X), so this products could be installed for both indoor and outdoor, then there will be no limited for the installed place.

To meet different require from customer, we design 3 type: **EU-108C** Wall-Mount Fixed Ultrasonic Flowmeter, **EU-108E** Explosion-Proof Fixed Ultrasonic Flowmeter, **EU-108P** Panel-Mount Ultrasonic Flowmeter.

The ultrasonic flow meter works with Ultrasonic Technology and Measures by Principle of time difference. There is a pair of ultrasonic vibrator and receiver in the exterior of pipe emitting in two directions and both face to face. The light vibrator will emit ultrasonic signals down stream and reversed stream. Measuring the time difference of the two directions transmission, you will get the flow rate of the fluid; then input the diameter of pipe, you will get the flow.

| | |
|-------------------|--|
| Linearity | 0.42% |
| Repeatability | 0.17% |
| Accuracy | Normally $\pm 0.8\%$ of reading at rates $> 0.2\text{mps}$ |
| Response Time | 0-999 seconds, user-configurable |
| Pipe Size | 1/2" ~ 240" (DN15mm - DN6,000mm)* |
| Pipe Material | All metals, most plastics, lined pipes |
| Units | English (U.S.) or metric |
| Liquid Types | Virtually all liquids and liquids with minor solids ($< 10,000\text{ppm}$). Full pipes |
| Digital Interface | Relay/OCT/RS-485/4~20mA/ 0~20mA output. |
| Power Supply | 220V AC / 24VDC / 85~264VAC |



EU-108C



EU-108E



EU-108P

Clamp-On Transducer

A pair of clamp-on transducer to measure the flow from outside of a pipe, there is no pressure drop, no moving parts, no leaks and no contamination. The installation is very simple and no special skills or tools are required.



Standard TS2
DN15~DN100



Standard TM1
DN50~DN700



Standard TL1
DN300~DN6000



High-Temperature
S1H
DN15~DN100



High-Temperature
M1H
DN50~DN700

| | | | | | |
|-------------------------------------|--|------------|--------------|------------------------------------|------------|
| Technical parameters | TS2-ype | TM1-type | TL1-type | S1H-type | M1H-type |
| Pipe size(mm) | DN15-100 | DN50-700 | DN300-6000 | DN15-100 | DN50-700 |
| Pipe size(inch) | (1/2" ~4") | (2" ~28") | (12" ~240") | (1/2" ~4") | (2" ~28") |
| Material | ABS | | | Special high-temperature materials | |
| Frequency | 1MHZ | | | | |
| Installation method | V(N、W) | V、Z | Z | V(N、W) | V、Z |
| calibration | Calibrate with the main unit | | | | |
| magnetism | Magnetic | | No magnetic | | |
| Application of temperature | 32°F ~158°F (0°C ~70°C) | | | 32°F ~320°F (0°C ~160°C) | |
| Protection class | IP68(can work in water, and water depth≤3 meter) | | | | |
| Dimension(mm) | 45×30×30 | 60×45×45 | 80×70×55 | 90×85×24 | 90×82×29 |
| weight (g) | 75 | 250 | 650 | 94 | 150 |
| Liquid types | Water,sea water.waste water,chemical liquids,oil,crude oil,alcohol,beer,etc. | | | | |
| Suspension concentration | ≤20000ppm,may contain very small amount of air bubbles. | | | | |
| Pipe material | All metals,most plastics,fiber glass,etc, | | | | |
| Dedicated shielded transducer cable | Shielded transducer cable,can be extended to 500 meter×2, contact the manufacturer for longer cable requirement. | | | | |

Installation impression drawing:

