

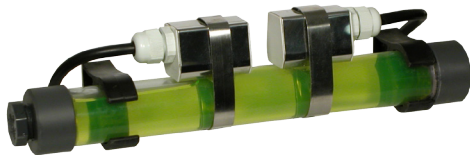
BE6300 SERIES

ULTRASONIC CLAMP-ON FLOWMETER

Economical Transit-Time flowmeter combines ease of installation with high accuracy in closed pipes.



The large easy-to-read display and integral keypad make the BE6300 series easy to program even for the novice.



The speed of sound travelling between the two transducers varies with liquid velocity. A time-differential relationship conversion to flow rate is based on the velocity as well as the pipe diameter.

BE6300 FEATURES

- Pipe sizes from 0.75 to 120 in. (20 - 3000mm).
- Velocities from -53 to +53 fps (-16 to + 16 m/s).
- Accuracy to 1.0%, repeatability to $\pm 0.2\%$.
- Easy to install clamp-on transducers are compatible with plastics, steel, stainless steel, cast iron, concrete, other materials.
- Outputs: 4-20mA, 0-20mA, frequency, relay, serial communications.
- 2 line x 20 digit backlight LCD display & integral 16 button keypad.

Clamp-on type ultrasonic flowmeters offer the the simplest and easiest installation of any flowmeter. The BE6300 series transit-time flowmeter is no exception and installs in minutes. A pair of rugged transducers mounts easily to the outside of the pipe using standard clamping straps.

The transducers are non-intrusive, therefore there is no pressure drop or flow obstruction. The advanced microprocessor utilizes the latest in ultrasonic direct time measurement with a resolution of 0.2 nanoseconds. Coupled with state-of-the-art data processing the BE6300 series provides a high level of linearity.

Various inputs and outputs are available to interface with a wide variety of control and reporting systems. Remote programming is available via the standard RS232C port.

TYPICAL APPLICATIONS

- Potable Water
- Wastewater, Influent & effluent
- River & Sea Water
- Irrigation
- Cooling Tower
- De-Ionized Water
- Chemicals
- Oils
- Juices
- Milk
- Wine
- Syrups

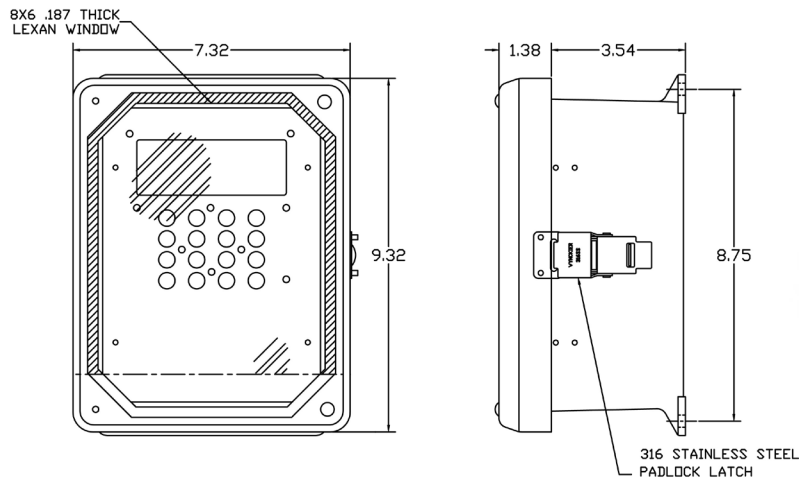


ULTRASONIC FLOWMETER

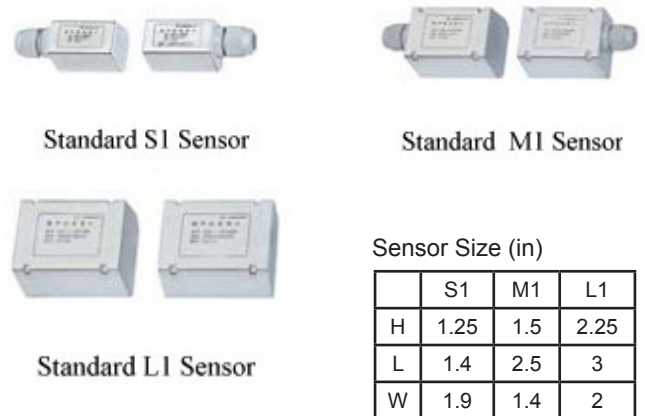
FLOMOTION BE6300 SERIES ENGINEERING SPECIFICATIONS

| Classification | | Performance Parameter |
|---------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Pipe | Materials | Steel, Stainless Steel, Cast Iron, Plastics, Concrete, etc. |
| | Inner Diameter | 0.75 to 120 in. (20 ~ 3000mm) |
| | Straight Pipe Section Requirement | 10D upstream, 5D downstream |
| Fluid | Types | Clean, sonically conductive |
| | Turbidity | Less than 10,000ppm (mg/l) with a low level of air bubble content |
| | Temperature | -4° to 220° F (-20° to 105° C) |
| Flow Velocity | | -53 to +53 fps (-16 to +16 m/s) |
| Transducer | Typical Pipe Size Ranges - consult factory for extended ranges | S1: 0.75 to 4 in. (20 ~ 100mm) M1: 2 to 24 in. (50 ~ 600mm) L1: 12 to 120 in. (300 ~ 3000mm) |
| | Mounting Method | 'V' method: Suitable for pipe sizes 16 in. (400mm) or smaller 'Z' method: Suitable for pipe sizes 10 in. (250mm) or larger |
| Cable Length | | 16 ft (5m) Std. (longer lengths available) |
| Flow Computer | Display | Alphanumeric 2 x 20 digit backlight LCD |
| | Keyboard | 16 button keypad |
| | Mounting | Wall Mount or optional Panel Mount |
| | Output | 4-20mA or 0-20mA analog output, frequency output (12-9999Hz), relay, serial output. |
| | Power | Wall Mount: 120VAC 6W & 24VDC 50mADC Panel Type: 120VAC 6W |
| | Dimension | Wall Mount: 9.3 x 7.3 x 4.9 in. |
| | Weight | 7 lbs. (3kg) Wall Mount |
| Operating Condition | Temperature | Flow Computer: -4 to 158° F (-20 to 70° C) Transducer: -4° to 220° F (-20° to 105° C) |
| | Humidity | Flow Computer: 85% RH at 104° F (40° C) Transducer: 98% RH at 104° F (40° C) (Able to operate immersed in water depth smaller than 3m) |
| Performance | Accuracy | ±1.0% of reading above ±1 fps |
| | Repeatability | ±0.2% at 1 to 53 fps (0.3 ~ 16m/s) |
| | Linearity | 0.5% |

DIMENSIONS



BE6300 SENSOR CHOICES



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