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 timedifferential 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 ±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.
- Nema 4x lockable enclosure.

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 availble 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



DITEMSONIC FLOWMET

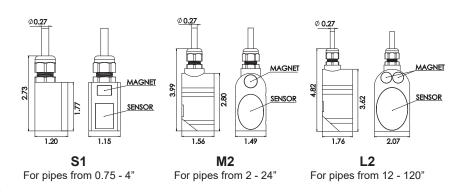
FLOMOTION BE6300 SERIES ENGINEERING SPECIFICATIONS

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) M2: 2 to 24 in. (50 ~ 600mm) L2: 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 Meter	Display	Alphanumeric 2 x 20 digit backlight LCD
	Keyboard	16 button keypad
	Mounting	Wall Mount
	Output	4-20mA or 0-20mA analog output, frequency output (12-9999Hz), relay (1A at 125VAC, 2A at 30VDC), serial output.
	Power	Wall Mount: 120VAC 6W & 24VDC 50mADC
	Dimension	Wall Mount: 9.3 x 7.3 x 4.9 in.
	Weight	7 lbs. (3kg) Wall Mount
	Datalogger (optional)	8GB SD Card. Format: FAT32. Up to 9999 readings. 7 days at 1 min intervals.
Operating Condition	Environmental	NEMA 4X
	Temperature	Flow Meter: -4 to 158° F (-20 to 70° C), Transducer: -4° to 220° F (-20° to 105° C)
	Humidity	Flow Meter: 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

7.32 1.38 3.54 1.38 3.54 1.38 3.54 1.38 3.54 1.38 3.54 1.38 3.54 1.38 3.54 1.38 3.54 1.38 3.54 1.38 3.54 1.38 3.54 1.38 1.38 3.54 1.38

BE6300 SENSOR CHOICES



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