

ULTRASONIC FLOW

ALPHA3600: PORTABLE ULTRASONIC TRANSIT-TIME FLOWMETER

DIGITAL TECHNOLOGY FOR OPTIMIZED MEASURES

TYPICAL APPLICATIONS

- Clean and dirty fluids like water, waste water, sea water, river water, ranging from distilled products to multi-phase crude oil and water mixtures. Difficult applications include oil production, cryogenic and custody transfer.



The Alpha3600 is a portable ultrasonic Transit-Time Flowmeter consisting of a handheld transmitter, a pair of transmitting and receiving sensors, mounting hardware and a carrying case. The transmitter combines digital signal processing (DSP) with correlation detection methods to analyze, separate, and reject noise frequencies. The Alpha 3600 is configurable as a single channel with clamp-on transducers to accommodate small, standard and large sizes of pipes.

OTHER FEATURES INCLUDE:

- Easy to set up in minutes.
- The non-intrusive clamp-on transducer can be installed without flow interruption to ensure leak free measurements with zero pressure drop.
- Stable readings are assured with a design immune to vibrations and temperature changes.
- Unique ultrasonic sensors & circuitry based on the proven transit-time technique.
- Typical field performance : $\pm 0.2\%$ for repeatability and up to $\pm 0.5\%$ accuracy of velocity depending on fluid conditions.

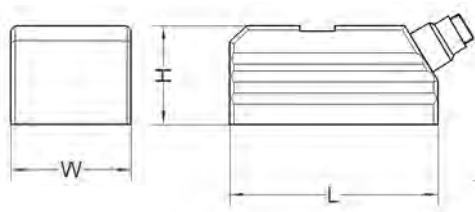
SPECIFICATIONS

Measure principle	Ultrasonic Transit-Time method
Accuracy	To $\pm 0.5\%$ of velocity or ± 0.05 FPS (0.0152MPS) Typical on a calibrated system/digital output. (Depending on fluid conditions)
Flow Range	Up to ± 0.1 to 50 FPS (± 0.03 to 15m/s) Consult factory for higher range
Pipe sizes	0.5 to 15 ft (15 mm to 4.6 m)
Sensor types	Standard Clamp-on Sensor for pipe size from 2" to 28" (50 to 700 mm) Small Clamp-on Sensor for pipe size from ½" to 4" (15 to 100 mm) Large Clamp-on Sensor for pipe size from 12" to 180" (300 to 4600 mm)
Operating Temp.	-4 to 158 °F (-20 to 70 °C) for electronics unit and sensor.
Data Logger	Programmable 1000 data point capacity, time stamped.

SPECIFICATIONS (CONTINUE)

Communication	RS485/Modbus RTU; Bluetooth.
Software	Delta-Phase View™ on PC; Apps for Cellphone or Pad.
Display	LCD Display for Flow rate, Totalizer and Operation Manual.
Sensor Cable	10 ft standard. Other cable length is available, consult factory.
Power supply	Rechargeable Li-Battery for 8 hours continuous operation. External Charger included.
Encloser	Transmitter: polycarbonate material, IP66. Carrying Case with protective molded foam insert.

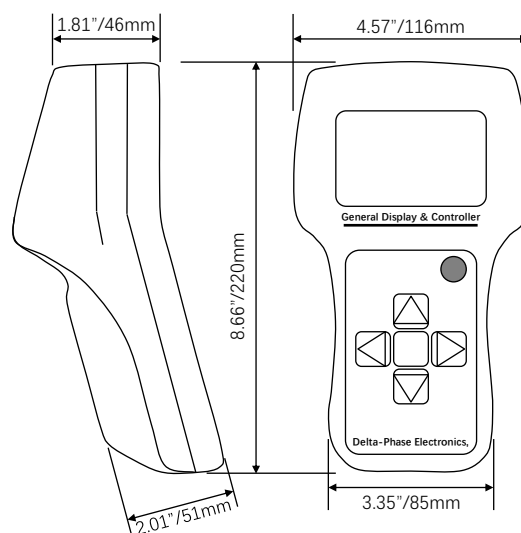
DIMENSION



Clamp-On Sensor

	Standard	Small	Large
L	2.8/71	1.57/40	3.74/95
H	1.46/37	1/25	1.77/45
W	1.46/37	1/25	2.17/55

Clamp-on Sensor Sizes (in/mm)



Portable Transmitter

Specifications subject to change without notice.



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