

ULTRASONIC FLOW

ALPHA2600: POTABLE ULTRASONIC DOPPLER FLOWMETER

DIGITAL TECHNOLOGY FOR OPTIMIZED MEASURES

TYPICAL APPLICATIONS

- Water, Waste water
- Sea water, River water
- brine solutions, slurries
- And most applications with liquids having at least 50 ppm and 30 micron size suspended particles .



The Alpha2600 is a portable ultrasonic Doppler Flowmeter consisting of a transmitter, a clamp-on transmit/receive sensor, mounting hardware and a carrying case. The transmitter's electronics is specifically designed to analyze, separate, and reject noise frequencies. The ultrasonic sound waves are coupled from the sensor, through the pipe walls, and reflected off the particles in the fluid back through the pipe walls to the sensor.

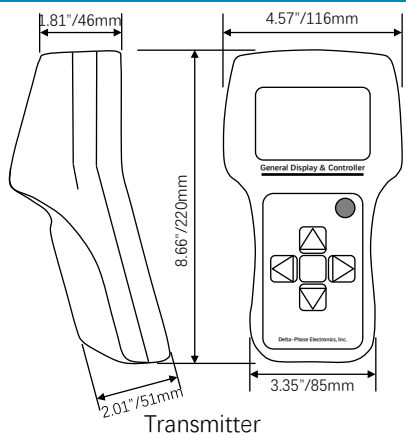
OTHER FEATURES INCLUDE:

- 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 using Doppler technique
- Typical field performance : $\pm 0.5\%$ for repeatability and up to $\pm 2\%$ accuracy of velocity depending on fluid conditions.

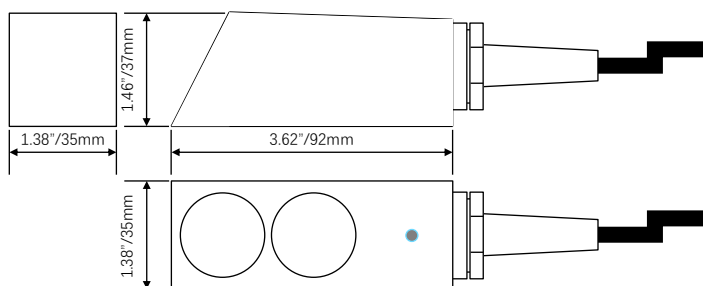
SPECIFICATIONS

Measure principle	Ultrasonic Doppler method
Accuracy	For flows at 1 FPS (0.3 m/s) or greater to $\pm 2\%$ of velocity reading for Reynolds #'s above 100,000 depending on fluid conditions. To $\pm 5\%$ of velocity reading for Reynolds #'s 10,000 -100,000 (3:1 any range approximately) depending on fluid conditions. Linearity and repeatability to $\pm 0.5\%$ under the same pumping conditions.
Flow Range	0.3 to 40 FPS (0.09 to 12.19 m/s) liquids. 50 parts per million (PPM) of a minimum of 30 micron size suspended solids, turbulence or bubbles to ensure accurate, repeatable flow measurement.
Pipe size	0.5 to 15 ft (12.7 mm to 4.6 m)
Operating Temp.	-4 to 158 °F (-20 to 70 °C) for electronics unit and sensor.
Data Logger	Programmable 1000 data point capacity, time stamped.
Communication	RS232/Modbus RTU; Bluetooth.
Software	Delta-Phase View™ on PC; Apps for Cell-Phone 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



Transmitter



Clamp-On Sensor Portable Transmitter

Specifications subject to change without notice.



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