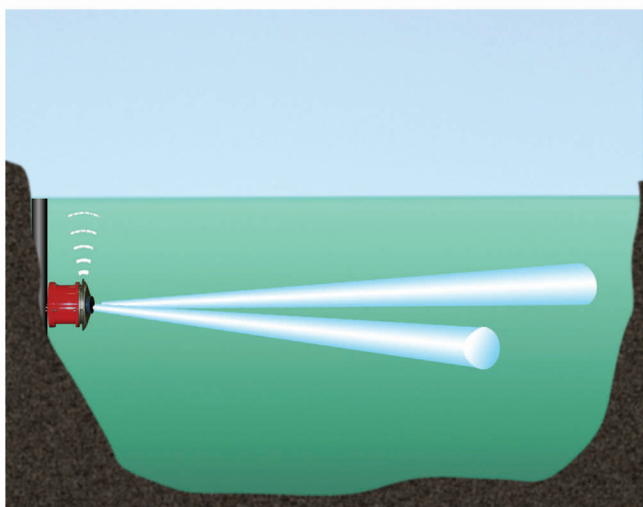


# **FlowQuest 600H & 1000H**

## **Horizontal Acoustic Current Profilers**



- **Real-time Flow, Current And Water Level Measurement**
- **Range Up To 120 Meters**
- **600 kHz & 1 MHz Operating Frequency**
- **Highly Robust Acoustic Doppler Technology**
- **Significantly Longer Range When Compared Against Similar Products**
- **Highly User Friendly And Cost Competitive**
- **Depth Rating 100 Or 800 Meters. All Components Water Sealed**
- **Low Power Consumption DSP Technology**



*FlowQuest 600H & 1000H Horizontal Acoustic Current Profilers precisely measure water velocities and water levels in horizontally-oriented installations. They can be easily installed on an irrigation channel bank, a bridge abutment or a river bank. With significantly longer range, high accuracy and highly competitive cost, the FlowQuest 600H & 1000H systems are the perfect choice for long-term real-time monitoring of water flow, velocities and levels in water channels, rivers, ports, harbors and estuaries.*

**LinkQuest Inc.**

6749 Top Gun Street, San Diego, CA 92121, USA

Tel: (858) 623-9900, 623-9916 Fax: (858) 623-9918

sales@link-quest.com <http://www.link-quest.com>



# FlowQuest 600H & 1000H

## Horizontal Acoustic Current Profiler Specification

### Water Profiling Range and Depth

| Model             | FlowQuest 600H | FlowQuest1000H |
|-------------------|----------------|----------------|
| Frequency         | 600 kHz        | 1 MHz          |
| Maximum Range     | 120 m          | 50 m           |
| Maximum Cell size | 4 m            | 2 m            |
| Standard Depth    | 100 m          | 800 m          |
| Maximum Transmit  | 50 watts       | 20 watts       |
| Blank Distance    | 0.25 m         | 0.4 m          |

### Velocity Specifications

| Model                  | FlowQuest 600H   | FlowQuest1000H   |
|------------------------|------------------|------------------|
| Accuracy               | 0.25% ± 2.0 mm/s | 0.25% ± 2.0 mm/s |
| Cell size              | 0.5 – 4.0 m      | 0.25 – 2.0 m     |
| Maximum Water Velocity | 20 knots         | 20 knots         |
| Number of Cells        | 170              | 170              |
| Maximum Ping Rate      | 2/second         | 5/second         |

### Hardware

**Transducer:** 3 Beam Convex

**Transducer Beam Angle:** 22 degrees

**Housing:** Anodized Aluminum and Plastics

**Communication:** RS422 or RS232

### Weight and Dimension

| Model                        | FlowQuest 600H | FlowQuest1000H |
|------------------------------|----------------|----------------|
| Transducer Assembly Diameter | 26.5 cm        | 23 cm          |
| Housing Diameter             | 20 cm          | 20 cm          |
| Overall Length               | 25 cm          | 20 cm          |
| Weight In Air                | 9.9 kg         | 9.0 kg         |
| Weight In Water              | 4.4 kg         | 4.0 kg         |

### Standard Sensors

Tilt (pitch and roll)

### Software

Windows FlowQuest Studio software for real-time current and flow monitoring and off-line data analysis and display.

### Surface Tracking For Water Level Measurement

| Model            | FlowQuest 600H  | FlowQuest1000H  |
|------------------|-----------------|-----------------|
| Frequency        | 600 kHz         | 1 MHz           |
| Maximum Altitude | 40 m            | 20 m            |
| Minimum Altitude | 0.4 m           | 0.2 m           |
| Accuracy         | ±0.25% ± 1 mm/s | ±0.25% ± 1 mm/s |

### Interface

RS422 or RS232 serial communication

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