

# **FlowQuest 75**

## **Ultra Long-range Acoustic Current Profiler**



- **Range Up To 900 Meters**
- **75 kHz Operating Frequency**
- **Highly Robust Acoustic Doppler Technology**
- **Significantly Longer Range When Compared Against Similar Products**
- **Highly User Friendly And Cost Competitive**
- **Standard Depth 800 Meters**
- **Optional Depth 1500, 3000 or 6000 Meters**
- **Data Fusion Function To Interface To Multiple Third Party Sensors**
- **Integrated LinkQuest High Speed Acoustic Modem**
- **Low Power Consumption DSP Technology**

*FlowQuest 75 is an ultra long-range Acoustic Current Profiler manufactured by LinkQuest Inc., a company renown for its innovation, capability and product quality. The FlowQuest 75 current profiler is ideal for measuring currents and flows in deep oceans. With its capability for significantly longer range, and seamless integration with third-party sensors and LinkQuest acoustic modems, the FlowQuest system is not just a current profiler. It also serves a focal point for your deepwater deployments.*

**LinkQuest Inc.**

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# FlowQuest 75

## Acoustic Current Profiler Specifications

### Water Profiling Range and Depth

Frequency	75 kHz
Maximum Range	900 m
Maximum Cell size	32 m
Standard Depth	800 m
Optional Depth	1500, 3000 or 6000 m
Maximum Transmit	800 watts
Blank Distance	3.8 m

### Velocity Specifications

Accuracy	$\pm 1\% \pm 5$ mm/s
Cell size	4 – 32 m
Maximum Water Velocity	20 knots
Number of Cells	170
Maximum Ping Rate	1/second

### Hardware

Transducer:	4 Beam Convex
Transducer Beam Angle:	22 degrees
Housing:	Anodized Aluminum
Communication:	RS422 or RS232
Internal Compact Flash Card:	1 Gbytes (standard) 2 or 4 Gbytes (optional)

### Weight and Dimension

Frequency	75 kHz
Transducer Assembly Diameter	58 cm
Housing Diameter	20 cm
Overall Length	47 cm
Weight In Air	40 kg
Weight In Water	26 kg

(Based on a unit with no internal battery pack. Length and weight change with internal battery packs.)

### Standard Sensors

<b>Temperature:</b>	
Accuracy: $\pm 0.4^{\circ}\text{C}$	Range: $-5^{\circ}\text{C}$ to $45^{\circ}\text{C}$
<b>Tilt:</b>	
Accuracy: $\pm 0.5^{\circ}$	Range: $-15^{\circ}$ to $15^{\circ}$
<b>Compass:</b>	
Accuracy: $\pm 2^{\circ}$	Maximum Tilt: $\pm 15^{\circ}$

### Software

Windows FlowQuest Software for real-time current monitoring and off-line data analysis and display.

### Options

#### Data Fusion Function

Interface to and log data from up to 7 third-party instruments such as CTD, precision depth sensor, water quality monitoring instruments, nutrition and chemical analyzers through RS232 serial ports. Sample up to 16 analog inputs simultaneously.

#### High Speed Acoustic Modem

Seamlessly integrated with LinkQuest high speed underwater acoustic modem (up to 38400 baud) for real-time monitoring or periodic data collection.

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