

# Micron Echosounder

## Ultra Compact Underwater Altimeter



### Applications

- ROV and AUV auto-altitude
- Sub-sea ranging devices
- Seabed scour monitoring
- Small vehicles

An ideal compliment to other sensors on compact ROV and AUVS. The Micron Echosounder can be operated alone or integrated with other devices.

### Benefits

- Ultra compact
- Millimetric resolution
- Integrate with Micron family
- Low cost

### Features

- Analogue and digital output
- 750m depth rating
- RS232 and RS485
- 50m range

The Tritech Micron Echosounder is an addition to the successful family of Micron products. Designed to be complementary to the Micron sonar, it can also act as a stand-alone altimeter, providing accurate height off the seabed and other subsea distance measurements.

The Micron Echosounder is a robust professional offshore or freshwater altimeter, built to the highest quality standards. It is optimised for operation on small vehicles, as it is both compact and very lightweight in water. Ideal as an OEM product, being able to accommodate a wide range of voltage inputs, while the small size allows integration into small ROVs.

As with all products in the Micron range the Micron Echosounder comes with a main and auxiliary port. The auxiliary port is designed to allow multiple Micron devices to be used simultaneously on an ROV, while requiring only one connection to the surface control computer.

Key Specification	
Operating frequency	500kHz
Beamwidth	6° conical
Depth rating	750m / 2460.63ft
Weight in water	0.06kg / 0.14lbs

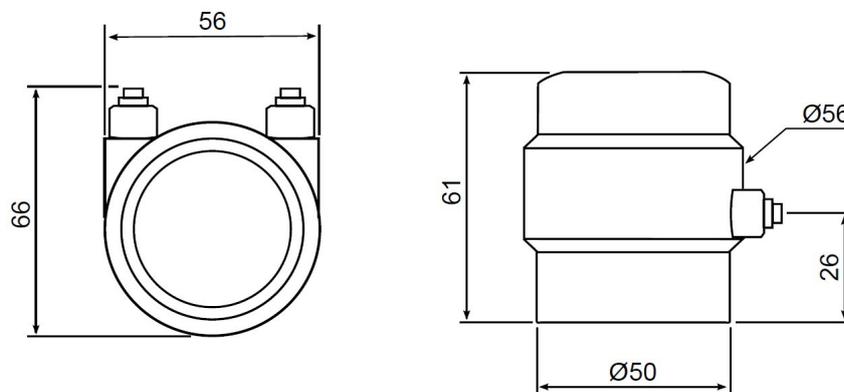
Acoustic specification	
Operating frequency	500kHz
Beamwidth	6° conical
Range	0.3m to 50m / 1ft to 164.05ft
Digital resolution	1mm / 0.04in

Electrical and communications	
Analogue output (AUX Port Only)	0 - 5V DC
Communication protocol	RS485, RS232
Serial output format	ASCII, NMEA, DBT
Topside control	Computer with standard serial port, SeaHub or USB-RS232/RS485 converter
Power requirements	12 - 48V, 1.72W

Physical specification	
Depth rating	750m / 2460.63ft
Weight in air	0.20kg / 0.45lbs
Weight in water	0.06kg / 0.14lbs
Operational temperature	-10°C to 35°C / 14°F to 95°F
Storage temperature	-20°C to 50°C / -4°F to 122°F

Specification subject to change in line with Tritech's policy of continual product development

\*Housing dependant



Not to scale. Measurements in mm.

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