

MicronEchosounder

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 MicronEchosounder can be operated alone or integrated with other devices.

Features

- Ultra compact
- Millimetric resolution
- Integrate with other Trittech products
- Low cost
- Analogue and digital output
- 750 m depth rating
- RS232 and RS485
- 50 m range

The Trittech MicronEchosounder is an addition to Trittech's family of products for small underwater vehicles. Designed to be complementary to the MicronSonar, it can also act as a stand-alone altimeter, providing accurate height off the seabed and other subsea distance measurements.

The MicronEchosounder 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.

The MicronEchosounder comes with a main and auxiliary port. The auxiliary port is designed to allow multiple products within this family to be used simultaneously on an ROV, while requiring only one connection to the surface control computer.

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

Acoustic specification

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

Electrical and communications

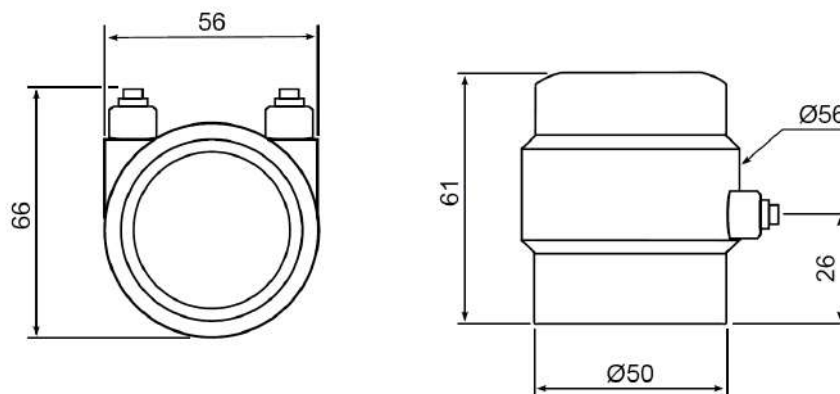
Analogue output (AUX Port Only)	0 – 5 Vdc
Communication protocol	RS485, RS232
Serial output format	ASCII, NMEA, DBT
Topside control	Computer with standard serial port, SeaHub or USB-RS232/RS485 converter
Power requirements	12 – 48 V, 1.72 W

Physical specification

Depth rating	750 m / 2460.63 ft
Weight in air	0.20 kg / 0.45 lbs
Weight in water	0.06 kg / 0.14 lbs
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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