Micron Data Modem - Responder & Transponder

Features

- Compact Size
- Multipath and noise rejection for use in shallow water
- Long range
- Exceptionally low error rate
- Low power consumption

Applications

- Low bandwidth
- All low data rate through water communications
- AUV control and data collection
- USBL navigation (As part of the MicronNav USBL system)

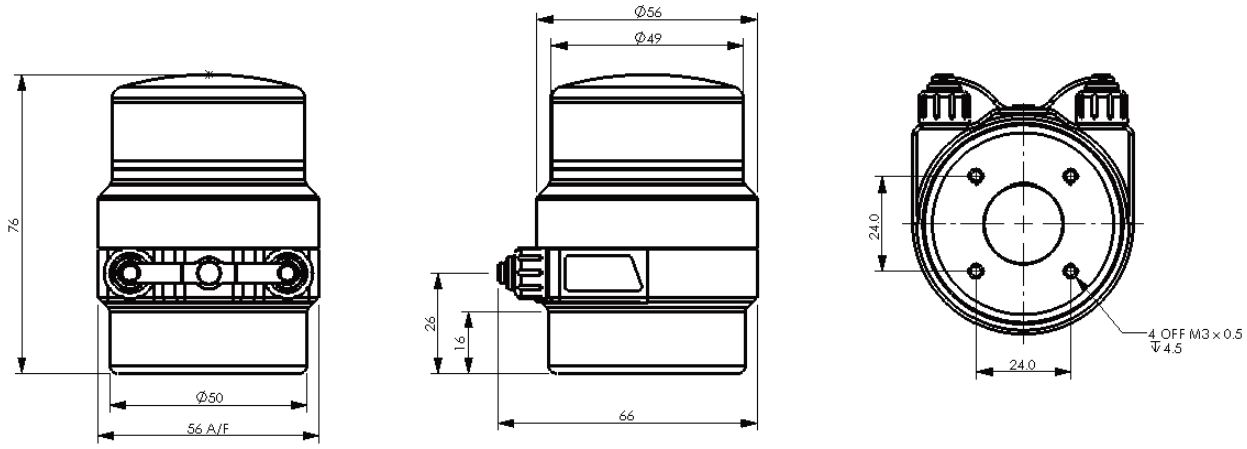
The Micron Modem is an exciting new development in the field of through-water communications. It provides robust spread spectrum data transmission from an extremely compact and low cost unit.

The Micron Modem can also be used as a responder or transponder for ROV and AUV tracking applications. A remote battery powered option is also available.

Due to its miniature size and low weight, the Micron Modem is suitable for a host of potential subsea data transfer applications that were previously impractical or uneconomic with larger, more expensive systems. With a range of up to 1km from its omni-directional transducer, and the ability to network multiple units subsea, the Micron Modem is a superb solution for many data through-water communication applications.

It may also be integrated into the new MicronNav tracking system, as a single subsea tracking sensor for ROV and AUV of all sizes or again as part of a network.

Specifications



Data Rate:	40bps (Spread spectrum)
Frequency Band:	20 - 24KHz - Standard 16 - 20KHz - Optional 24 - 28KHz - Optional
Transducer:	Omni transducer
Maximum Range:	1Km
Transmitter Source Level:	169dB re 1uPa @ 1m
Ranging:	Integral range function with 0.1m resolution over full range 125 micro seconds timing resolution
Interface:	RS232 or RS485
Multiplexing:	Multiple units can be addressed by unique ID code
Power Consumption:	3.5W transmitting 48mW sleep mode 280mW standby mode
Depth Rating:	750m
Input Power Supply:	12 – 24V DC

All specifications are subject to change in line with Tritech's policy of continual product development.

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