Your Path Through the Sea

Model MLM-1000

Inductive Mooring Line Modem

Bring your data to the surface

Supporting as many instruments as required and operating at a communication rate of 4800 baud over an insulated mooring line of more than 1,000m length, the RBR inductive mooring line modem MLM-1000 can meet any challenge. No fixed, bulky or expensive cables, no costly power hungry error prone acoustic modems, just a simple, strong, fast and flexible solution to bring your data to the surface.

Features

- Easy system integration
- Low power consumption
- Fast data transmission rates
- Flexible instrument positioning
- Robust and reliable
- Cost effective no data cables required
- Real-time telemetry
- Retro-fit onto existing RBR loggers



The MLM-1000 consists of two major components; the head end modem (HEM) and the sub surface modem (SSM). Each instrument on the mooring line system is connected to an SSM which communicate with the HEM (and host) through the mooring cable inductively.

The main features of the MLM-1000 are a fast communication rate along the mooring line, shock protected ferrites, no pre-deployment configuration required, an automated instrument discovery mechanism and an intelligent addressing mechanism that conserves power. A comprehensive set of system commands are available to query or command the instruments to identify themselves, take a sample and transmit the data. Instruments may be addressed individually, in sub-groups or all at once.

The inductive mooring line modem is available as integral part for RBR loggers and is easily interfaced (OEM version) to other instruments for example ADCPs, CO_2 or CH_4 sensors and other types of loggers.





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Specifications

Inductive Link

Data rate: 4800 baud Mooring line: Ø8-20mm

Head End Modem (HEM)

Serial communication: Up to 115kbaud

Polling mode: Scheduled or interactive Addressing mode: Individual, group or all

Voltage: 9.5 - 22V

Power consumption: 40µA sleep; ≤5mA active @

12V

Temperature range: -30°C to 60°C
Clock accuracy: ±60 seconds/year
Enclosure: Weatherproof
Size: 225 x 125 x 85mm

Sub-Surface Modem (SSM)

Serial communication: 4800 - 19200 baud

Voltage: 8 - 22V

Power consumption: 35µA sleep; ≤4mA active @

12V

Temperature range: -10°C to 50°C

Enclosure: Plastic and polyurethane

Size: Ø65 x 100mm

