

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 1000m 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

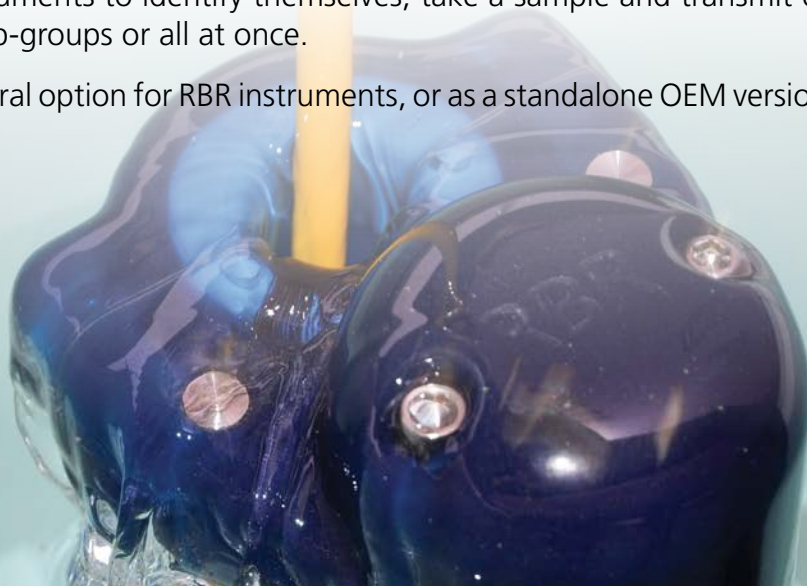
- Easy system integration
- Low power consumption
- Fast data transmission rates
- Flexible instrument positioning
- Robust and reliable
- Cost effective - no data cables required
- Realtime telemetry
- Retro-fit onto existing RBR loggers



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

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 data. Instruments may be addressed individually, in sub-groups or all at once.

The MLM is available as an integral option for RBR instruments, or as a standalone OEM version for serial connection to other devices.



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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: 343mm x Ø63.3mm (PoM)
 364mm x Ø60.3mm (Ti)
 Depth: 750m (PoM)
 >2000m (Ti)

