RBR

MEASURE THE BLUE PLANET

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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 4km 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 instruments 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 communicates 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 is 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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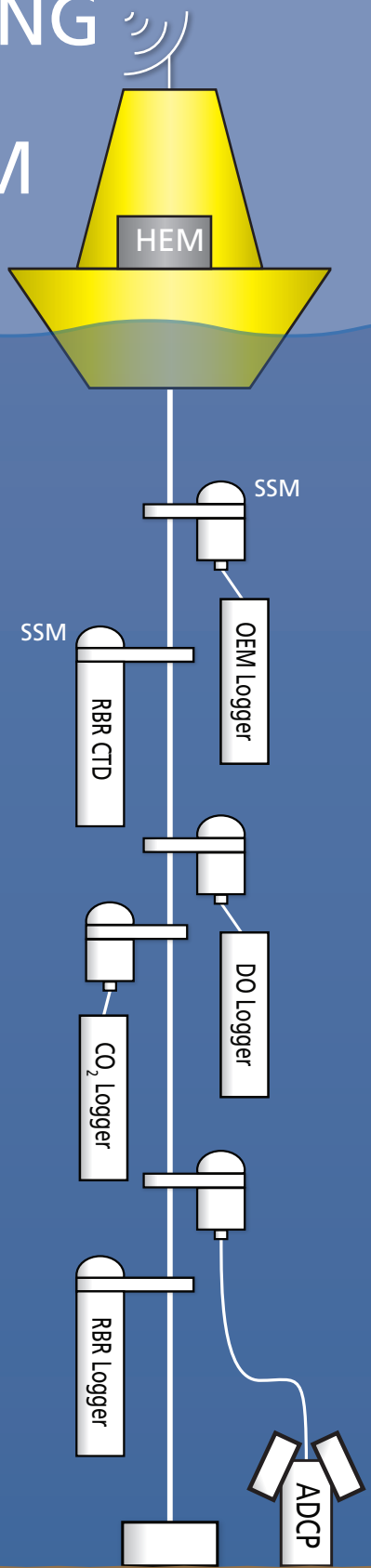

RBR Ltd

+1 613 599 8900

info@rbr-global.com

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Specifications

Inductive link

Data rate:	4800 baud
Mooring line:	Ø5 – 15mm

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

Subsurface 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
Size:	~310mm x Ø63.3mm (POM) ~328mm x Ø60.3mm (Ti)
Depth:	750m (POM) >2000m (Ti)

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