RBR
MEASURE THE BLUE PLANET

BUOY CONTROLLER

DATA FROM SEA TO SURFACE TO SHORE

The RBR*cervello* is a buoy-installed data controller which manages your subsurface instruments via inductive or cabled connections. Flexible configuration permits telemetry over Iridium or cellular networks with local backup. The RBR*cervello* supports meteorological weather stations and ADCPs, as well as all RBR sensors.

FEATURES

16GB memory	Iridium modem	Cellular modem	Realtime data hosting	Flexible configurations	Local USB download

The RBR*cervello* includes twelve months of data hosting service, and sites may be private or public. Smart switching between Iridium and cellular modems minimises costs. Engineering views of realtime data are available through any browser, with full data download for further processing. Local USB transfer is also possible for deployments without telemetry.

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Surface-mounted for a profiling system, such as the Del Mar Oceanographic (DMO) Wirewalker™, the RBR*cervello* communicates with your instruments via an inductive mooring line modem or by serial cables. Options include integrations of third-party ADCPs for the speed and direction of currents, or weather stations for the metrological data.
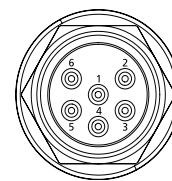
Specifications

Physical

Storage	16GB microSDHC memory card
Communication	RS-232, Iridium and cellular modems, USB
Power*	120 D-cell battery pack
Capacity*	1.9kWh (alkaline), 5.9kWh (Li)
Connectors	Three MCBH-6-MP (power, Hammerhead, USB) MCBH-6-FS (expansion)
Housing	Plastic
Height	~880mm (housing only) ~985mm (housing with Iridium antenna)
Diameter	~220mm (housing), ~250mm (end-cap)
Weight	~25kg (with alkaline batteries), ~21kg (with Li batteries)
Operating range	-30°C to 60°C

* The batteries support the data controller.
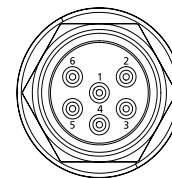 The instrument must have its own power supply.

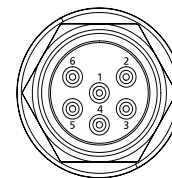### MCBH-6-MP connector pinouts

EXT.PWR. (to external power source)

- ▶ Pin 1 - Ground
- ▶ Pin 2 - Power 7-22V
- ▶ Pin 3 - From RBR*cervello* (Tx)
- ▶ Pin 4 - To RBR*cervello* (Rx)
- ▶ Pin 5 - N/C
- ▶ Pin 6 - N/C

USB

- ▶ Pin 1 - Ground
- ▶ Pin 2 - Power
- ▶ Pin 3 - N/C
- ▶ Pin 4 - USB 5V
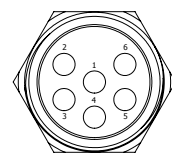- ▶ Pin 5 - D-
- ▶ Pin 6 - D+

TO HAMMERHEAD

- ▶ Pin 1 - N/C
- ▶ Pin 2 - N/C
- ▶ Pin 3 - N/C
- ▶ Pin 4 - N/C
- ▶ Pin 5 - Hammerhead
- ▶ Pin 6 - Seawater ground

MCBH-6-FS connector pinout

EXPANSION (e.g. to weather station)

- ▶ Pin 1 - Ground
- ▶ Pin 2 - Power
- ▶ Pin 3 - From RBR*cervello* (Tx)
- ▶ Pin 4 - To RBR*cervello* (Rx)
- ▶ Pin 5 - N/C
- ▶ Pin 6 - N/C