Marine Magnetics

SubSea Sentinel

2 in 1 Base Station Magnetometer

Deploying Sentinel on the bottom of the ocean is just as easy as setting it up on land. Program Sentinel once in your office or lab, as you would if deploying on land.When you have reached your deployment spot, just flip the switch, attach the heavy-duty brass seal, and hook on an acoustic release with a concrete anchor.

Attach your buoy to the top of the Sentinel tube, and throw the whole assembly overboard. Sentinel will not start acquiring data while on the deck of the ship. It will know when conditions become quiet enough for measurement, and will automatically begin sampling when it is out of range of the ship.

In all settings, [the Sentinel Base Station] has performed extremely well and yielded data of high value."

Phil Van Den Bossche & Sven Coles
Council for Geoscience

Performance

Sensitivity	0.015 nT
Resolution	0.001 nT
Gradient Tolerance	> 10,000 nT/m
Range	18,000 to 120,000 nT
External Trigger	by RS-232
Absolute Accuracy	0.2 nT
Temperature Drift	NONE
Dead Zone	NONE
Heading Error	NONE
Sampling Rates	1/Minute to 1Hz
Communications	RS-232, 9600bps

Operating Parameters

Magnetometer cylinder weight	14kgs
Magnetometer cylinder size	113cm x 13cm dia
Docking base weight	5kg
Maximum incline angle for deployment in dockingbase	40 degrees
Magnetometer cylinder depth rating, with brass seal installed	1000m
Operating temperature	-25C to +60C
Storage temperature	-60C to +70C
Communication	Full duplex, 3-wire RS232. 9600bps, 8 data bits, no parity, 1 stop bit
Storage capacity	one million readings
Battery pack	Gel cell 12V, 7Ah
Battery charge time	5 hours 80% charge. 10 hours full charge. Can charge while sampling

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+1 905 479 9727 | marinemagnetics.com