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Datasheet

Compatt Mk4 LF (Discontinued)

Description

The Computing and Telemetering Transponder (Compatt) is a microcomputer controlled subsea transponder used for acoustic navigation and positioning.

The Type 7802 Compatt Mk4 is the Low Frequency (8 - 16 kHz) version of Sonardyne's fourth generation family of transponders built to complement the existing range of Long BaseLine products. The LF system is suited to long range tasks such as underwater measurement, remote control and monitoring, where ranges of up to 10km can be achieved in adequate water depth.

Key Features

- Sequential mode operation with ten individual channel frequencies
- Simultaneous receiver card for high speed positional updates fitted as standard
- Unique addresses allow up to 512 Compatts to be used in close proximity
- Programmable address code and channel via RS232
- Conventional Enable and Disable commands for normal transponder operation
- Advanced telemetry facility replies to all commands with Compatt address, confirmation of command executed and error-checking
- Direct measurement of baselines between Compatts greatly improves array calibration accuracy
- Baseline measurement 60cm
- Temperature and depth measurements allow sea-bed sound velocity evaluation
- Battery check records remaining battery capacity and time since last charge
- Remote status Monitoring
- Cycle mode permits up to eight preset commands to be executed on receipt of one command
- Auto-disable at 90% battery pack usage.

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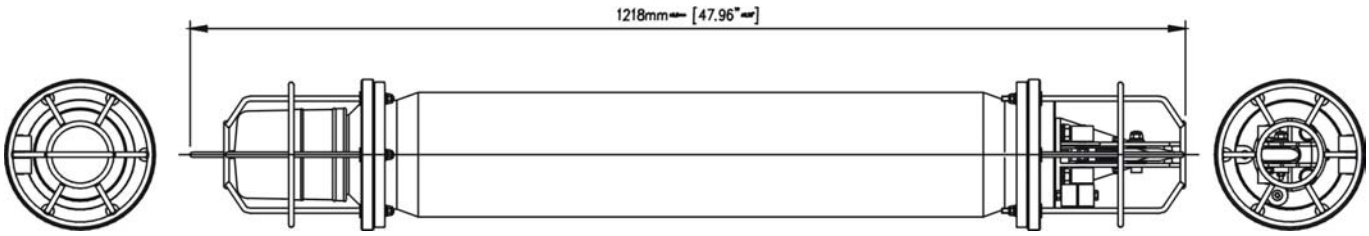
Specifications

Compatt Mk4 LF



Feature	Type 7802
Depth Rating	2,500 Metres or 7,000 Metres
Operating Frequency	LF (7.5-15kHz)
Transducer Beamshape	Omni-Directional
Maximum Acoustic Range	10Km
Relative Positioning Accuracy	0.25 - 2.0m
Transmit Source level (dB re 1µPa @1m)	>195dB
Receive Threshold (dB re 1µPa)	90 - 125dB
Quiescent Life	1080 days (Alkaline) 2040 days (Lithium)
Dimensions (LxDia)	1218mm x 184mm
Weight in Air	36kg
Weight in Water	21.5kg
Endcap Sensors (Fitted as Standard)	Temperature (PRT), Tilt switch (±30-45°), Depth (Strain Gauge Pressure transducer), Power for external sensors