

Datasheet

Compatt Mk4 MF (Discontinued)

Description

Sonardyne's COMPuting and Telemetering Transponder (Compatt) Mk4 is a microprocessor controlled subsea transponder used for acoustic navigation and positioning. Available in three frequencies to suit varying requirements of accuracy and range, Compatt is the internationally recognised instrument for subsea construction, survey and field development applications.

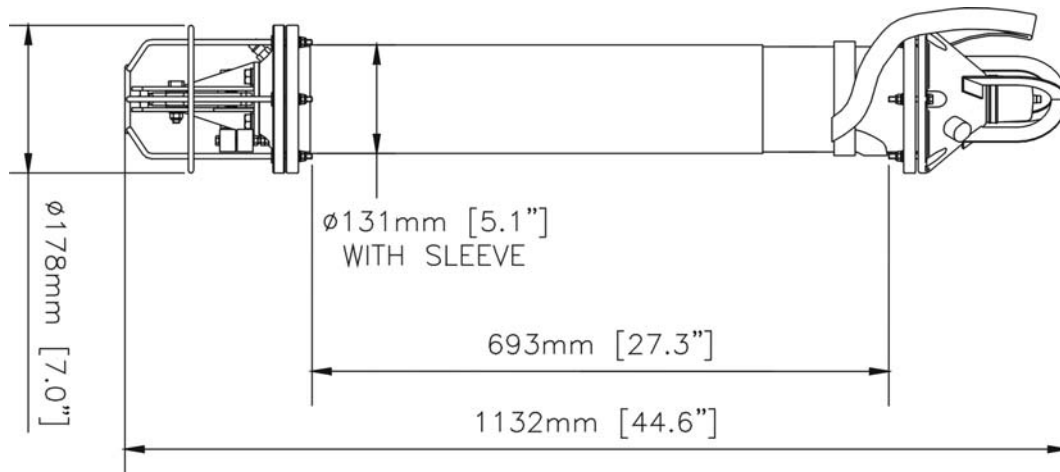
The latest release of Compatt firmware gives complete flexibility over choice of interrogates and replies channels. By adding 3 extra frequency channels, it is now possible to operate 3 systems in close proximity without mutual interference during navigation*. Also included is the ability to lock the Compatt status so that command corruption will not be able to take a beacon off-line accidentally.

Key Features

- Sequential mode operation with 15 individual channel frequencies
- Simultaneous receiver card for high speed positional updates
- Unique addresses allow up to 945 Compatts to be used in close proximity
- Programmable address code and channel channel via RS232
- Conventional Enable and Disable commands for normal transponder
- Remote selection of reply frequency helps overcome interference
- Advanced telemetry can reply to all commands with address, command executed and error-checking
- Direct baseline measurement to better than 15cm between Compatts greatly improves array calibration accuracy
- Temperature and depth measurements allow sea-bed sound velocity evaluation
- Battery check records battery capacity and time since last charge
- Remote power control to reduce output in reverberant conditions or to extend battery life
- Compatt status can be remotely monitored and variables reset
- 4 gain control settings
- Cycle mode permits up to eight preset commands to be executed on receipt of one command
- Compatible with all Sonardyne and HPR300/400 channels
- Auto-disable at 90% of battery pack usage. Acoustic override
- Internal tilt sensor $\pm 45^\circ$

Specifications

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Feature	Type 7800
Depth Rating	2,500 Metres
Operating Frequency	MF (18-36kHz)
Transducer Beamshape	Omni-Directional
Maximum Acoustic Range	3Km
Relative Positioning Accuracy	0.15–1.0m
Transmit Source level (dB re 1µPa @1m)	192dB
Receive Threshold (dB re 1µPa)	82 - 128dB
Quiescent Life	1071 days (Alkaline)
	1786 days (Lithium)
	89 days (Ni-Cad)
Dimensions (LxDia)	1132mm x 178mm
Weight in Air	24.1kg
Weight in Water	11.2kg
Endcap Sensors (Fitted as Standard)	Temperature (PRT), Tilt switch (±30-45°), Depth (Strain Gauge Pressure transducer), Conductivity, Power for external sensors