



Mk 4 Compatt Transponder Types 7800/7801/7802

Sonardyne's Mk4 COMPuting And Telemetering Transponder (COMPATT) is a microprocessor controlled subsea transponder used for acoustic navigation and positioning.

Available in three frequencies to suit varying frequencies of accuracy and range, The MF system is suited to a wide range of tasks, including underwater measurement, remote control and monitoring.

The series 7800 Compatt is designed to complement the existing range of Long BaseLine (LBL) and Ultra-Short BaseLine (USBL) products.



FEATURES AND BENEFITS

- HPR compatible
- Depth rated to 7,000 metres
- Alkaline, Ni-Cad or Lithium battery options
- Telemetry ranges to 10km (LF frequency)
- Highly reliable acoustic release mechanism
- Omni-Directional or Directional transducer beamshapes
- Baseline measurements better than 5cm (EHF frequency)
- 12 channel simultaneous receiver card for high speed positional updates
- Unique addresses allow up to 945 COMPATTs to be used in close proximity

TECHNICAL SPECIFICATION

COMPATT Type	Type 7800	Type 7801	Type 7802
Frequency	MF (18-36 kHz)	EHF (50-110 kHz)	LF (7.5-15 kHz)
Typical Accuracy	0.15-1 metres	0.02-0.15 metres	0.5-2 metres
Maximum Acoustic Range	3 Km	<1 Km	<10 Km
Depth Rating	2,500 metres or 4,000 metres	2,500 metres	6,800 metres
Transducer Beam Shape	Hemispherical or Directional	Hemispherical	Hemispherical
Acoustic Output Power (dB re 1 µPa at 1 metre)	192dB - 202 dB	190 dB	>195 dB
Receive Sensitivity (dB re 1 µPa)	82-128 dB	90-125 dB	90-125 dB
Battery Life (Listening only)	1071 days (Alk) 1786 days (Lith) 89 days (Ni-Cad)	1071 days (Alk) 1786 days (Lith) 89 days (Ni-Cad)	1080 days (Alk) 2040 days (Lith)
Sensor Options	Depth. Temp. Inclinometer Conductivity	Depth. Temp. Inclinometer Conductivity	Depth. Temp. Inclinometer
Dimensions (Maximum)	178mm (d) x 1162mm (l)	178mm (d) x 1185mm (l)	184mm (d) x 1218mm (l)
Weight in Air/Water	24.1kg/11.2kg	24.1kg/11.2kg	36kg/21.5kg

Note: Dynamic Positioning Services reserve the right to amend this specification without prior notice.