

MK 5 Compatt Transponder

Programmable Acoustic Navigator (PAN) is a microcomputer-controlled unit dedicated to the transmission, reception and decoding of acoustic signals.

Part of Sonardyne's integrated family of underwater acoustic navigation and telemetry equipment, the system is applicable to a wide range of tasks in underwater engineering measurement, remote control and monitoring.

The medium frequency (MF) version operates in the frequency band 18 to 36 kHz. This provides the best compromise between long range, accurate positioning and operation in high level of noise.

When operating in the Low Frequency (LF) band, transponder ranges of over 10 km are obtainable. When working with Extra High Frequency (EHF) Compatts, accuracies of 30 mm or better can be achieved.

PAN is available in all frequency bands (LF, MF, EHF) and is field convertible by substitution of circuit cards.



FEATURES AND BENEFITS

- Can be controlled by a computer terminal or master computer via an RS232C serial data link or IEEE 488 instrumentation bus.
- Internal rechargeable batteries enable operation away from mains supplies.
- Two transducer ports which are software-selectable.
- A front panel keypad and 32 character alphanumeric display provide local input and display.
- Software packages (APS 3) are available for Hewlett-Packard Series 200 and Series 300 computers and PC based systems.

TECHNICAL SPECIFICATION

Type	LF	MF	EHF
Frequency Range	8 - 16 kHz 19 - 36 kHz	55 - 110 kHz	
Receive Sensitivity	80 dB re 1 μ P	85 dB re 1 μ P	100 dB re 1 μ P
Interrogation Source Level	192 dB re 1 μ P @ 1 m	192 dB re 1 μ P @ 1 m	186 dB re 1 μ P @ 1 m
Pulse Length	8 ms	4 ms	1 ms
Timing Resolution	16 μ s	16 μ s	16 μ s
Number of Independent Navigation Channels	10	16 (only 10 fitted)	12 (only 10 fitted)
Telemetry Data Rates to Compatt	16, 25, 50 baud	25, 50, 100 baud	25, 50, 100 250 baud
Telemetry Data Rates for Template Positioning System	25, 50, 100 250 baud		
Dimensions (portable model)	444 mm wide, 10 kg	203 mm high,	279 mm deep
The unit is fully sealed and provided with a pressure relief valve which must be opened for air transport.			
Dimensions (rack mounting model)	19 inches wide, 5U high, 292 mm deep		
Shipping Weight	35 kg		

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