



1310A Series Micro Beacon with RM91S/SR



1310A with RM91SR



1310A with RM91S

Key Features

- Sigma spread spectrum technology
- Responder interface
- Easy channel configuration via Beacon Editor app
- Re-chargeable NiMH batteries
- Can operate and trickle charge from a 24V ROV power supply
- USB charging
- 1000m depth rating
- PRV
- On/Off shorting link

The 1310A Micro Beacon with a remote transducer head expands the versatility of the popular 1300A range of rechargeable Micro Beacons.

The transducer is placed away from the electronics housing attached by an interconnect lead. This arrangement is ideal where space is limited, or the transducer needs mounting away from noise sources such as ROV thrusters.

In addition to its internal batteries, the beacon has an external connector that allows it to operate and trickle charge from a ROV 24V supply. Channel selection and alternative bench charging is via a USB adaptor cable, included with the unit.

Applications

- General purpose tracking and positioning applications
- Diver tracking
- Static and dynamic operations e.g. ROV, sidescan sonar

Technical Specification

PHYSICAL SPECIFICATION

Housing material: Hard anodised aluminium

	Beam pattern	SPL dB	Depth m	Dia mm	Length mm	Weight air, g	Weight water, g
1310A	n/a	n/a	1000	51	292	980	300
RM91S	±90°	183	1000	54	150	600	320
RM91SR	±90°	183	1000	54	136	570	340



1310A Series Micro Beacon Technical Specification

Electrical connector	Micro Wet-con MCBH5M
Transducer connector	Micro Wet-con MCIL2F
Interconnect lead	1.5m (200g)
Interconnection method	
RM91S	MCIL2M connector, straight exit
RM91SR	Male EO connector, 90° exit
Mounting method	4 x M4 nylon screws, to be isolated from other metals

ELECTRICAL SPECIFICATION

Battery type	Rechargeable. NiMH
Charge time	Computer USB port, 8 hours maximum (standard) Mains USB dedicated charge port adaptor, 4 hours maximum (fast)
Listening life	30 days minimum (@ 2°C)
Operational life	Dependent on pulse rate and operational mode 30 hours at 1.0pps (AAE sigma spread Spectrum mode) Operational life reduced when used with non AAE channels

Configuration

Set-up	Beacon Editor software
Transmit frequency range	21.5 – 30.5kHz
Receive frequency range	16.0 – 26.5kHz
Turnaround time	Dependent on channel selection
Transmit pulse width	Dependent on channel selection

External Inputs (1310A)

Responder key	Positive 5-20 Volts
External Power/Charge	24 Volts @ 50mA
Ground	Common ground
On/Off	Via connector shorting link

USBL COMPATIBILITY

AAE Nexus	Sigma, spread spectrum
AAE Easytrak	All models, tone systems
iXblue	GAPS USBL
Kongsberg	HPR/HiPAP
ORE/Edgetech	USBL
Sonardyne	USBL



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Due to continual product improvement, specification information may be subject to change without notice.
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