

1300A Series Micro Beacon



The **1300A Series Micro Beacon** is an evolution of the popular 300 Series that has been designed to add extra versatility to the Micro Beacon range. It is ideal for use in shallow water environments or operations in confined space.

In addition to its internal batteries, the 1300A Series Micro Beacon has an external connector that allows it to operate from a ROV 24V power supply.

Channel selection is via a USB adaptor cable.

Key Features

- Sigma spread spectrum technology
- Rechargeable NiMH batteries
- USB PC connectivity via 5 pin connector
- Charging via USB with onboard charge indicator
- Easy channel configuration via Beacon Editor app
- Can operates from a 24V power supply
- Responder interface
- Legacy support for almost all industry USBL systems currently in use
- PRV, Pressure Release Valve (Auto)
- On/Off shorting link

Applications

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

Technical Specification

Housing material; Hard anodised aluminium

	Beam Pattern	SPL	Survival Depth	Diameter	Length	Weight air/water
1319A	±90°	183dB	600m	52mm	298mm	1000g/440g
1329A	±90°	183dB	600m	52mm	298mm	1200g/550g

1300A Series Micro Beacon Technical Specification

ELECTRICAL SPECIFICATION

Battery

Battery type	Rechargeable; NiMH
Charge Time	Computer USB port: 1319A: 8 hours. 1329A: 16 hours
(Typical)	Mains USB dedicated charger: 1319A: 4.0 hours. 1329A: 8 hours
Listening life	1319A 30 days minimum (at 2°C) 1329A 45 days minimum (at 2°C)
Operational life	1319A 30 hours at 1.0pps (AAE Spread Spectrum) 24 hours at 1.0pps (HiPAP / HPR400) 1329A 60 hours at 1.0pps (AAE Spread Spectrum) 48 hours at 1.0pps (HiPAP / HPR400)
Operational life reduced when used with non AAE channels and dependent on rate.	

Configuration

Set-up	AAE 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

Connector type	MCBH5M
USB interface	USB 1.1/2.0 (driver required)
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	
AAE Easytrak	
AAE V-Nav	
Kongsberg	HPR/HiPAP
iXblue	GAPS
Sonardyne	USBL

OPTIONS

- Compatibility with USBL systems not listed above
- Remote transducer, supplied with model BCN-1310A electronic bottle and model types RM91S or RM91SR, omni-directional, depth rated to 1000m, complete with interconnect cable.



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