

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. Ideal for use in shallow water environments, and operation in confined space.

As with its predecessor, the 1300A Series Micro Beacon has an external connector that allows it to operate from a ROV 24V power supply and for channel selection via a USB adaptor cable.

Key Features

- Rechargeable NiMH batteries
- USB PC connectivity via 5 pin connector
- Charging via USB with onboard charge indicator
- Easy channel configuration via beacon editor app
- AAE Sigma Spread Spectrum technology
- Operates from a 24V power supply
- Responder interface
- Legacy support for almost all industry USBL systems currently in use

Applications

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

Technical Specification

MODEL TYPES – PHYSICAL SPECIFICATION

Housing material; Hard anodised aluminium

	Beam Pattern	SPL	Survival Depth	Diameter	Length	Weight air/water
1319A	±90°	183dB	600m	52mm	298mm	999g/438g

ELECTRICAL SPECIFICATION

Battery

Battery type	Rechargeable; NiMH
Charge Time	Computer USB port: 8 hours maximum Mains USB dedicated charge port adaptor: 4.0 hours maximum
Listening life	30 days minimum (at 2°C)
Operational life	Dependent on pulse rate and operational mode 30 hours at 1.0pps (AAE Spread Spectrum mode) Operational life reduced when used with non AAE USBL systems

Configuration

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 @ 100mA
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)
RM91S/RM91SR, omni-directional, depth rated to 1000m. Interconnect cable, 600mm as standard

Please consult the AAE sales team for further information



Due to continual product improvement, specification information may be subject to change without notice.
1300 Series Micro Beacon/Dec 2015
©Applied Acoustic Engineering Ltd.



Applied Acoustic Engineering Ltd

- T +44(0)1493 440355
- F +44(0)1493 440720
- E general@appliedacoustics.com
- W www.appliedacoustics.com