1300A Series Micro Beacon

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
- Multi-Fire common interrogate functionality

Applications

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

Series Micro Beacon Overview

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 and beacon editor application.
Technical Specification

MODEL TYPES – PHYSICAL SPECIFICATION
Housing material; Hard anodised aluminium

<table>
<thead>
<tr>
<th>Model</th>
<th>Beam Pattern</th>
<th>SPL</th>
<th>Survival Depth</th>
<th>Diameter</th>
<th>Length</th>
<th>Weight in Air / Water</th>
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</thead>
<tbody>
<tr>
<td>1329A</td>
<td>±90°</td>
<td>183dB</td>
<td>600m</td>
<td>52mm</td>
<td>298mm</td>
<td>1.2kg/0.55kg</td>
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<tr>
<td>1329D</td>
<td>±90°</td>
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<td>600m</td>
<td>52mm</td>
<td>298mm</td>
<td>1.2kg/0.55kg</td>
</tr>
</tbody>
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Electrical Specification

BATTERY

Battery type Rechargeable; NiMH
Charge time (Typical)
- Computer USB port: 16 hours
- Mains USB dedicated charger: 8 hours
Listening life 45 days minimum (at 2°C)
Operational life
- 48 hours at 1.0pps (Sigma 2 with Depth Telemetry)
- 56 hours at 1.0pps (HiPAP / HPR400)

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
Depth sensor precision ±1.0m (1329D version only)

EXTERNAL INPUTS

Connector type MCBH5M
USB interface USB 2.0 or greater
Responder key Positive 5-20 Volts
External Power/Charge 24 Volts @ 50mA
Ground Common ground
On/Off Via connector shorting link

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

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<tbody>
<tr>
<td>Nexus 2, Pyxis</td>
<td>Sigma 2 spread spectrum systems.</td>
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<tr>
<td>aae Easytrak, Nexus</td>
<td>All models, tone systems</td>
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<td>iXblue</td>
<td>GAPS USBL</td>
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<tr>
<td>Kongsberg</td>
<td>HPR/HiPAP</td>
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</tbody>
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Options

- Compatibility with USBL systems not listed above
- Remote transducer, supplied with model BCN-1310A or BCN-1320D electronics bottle and model types RM91S or RM91SR
- Increased depth rating to 1000m