600 Series Low Frequency Beacons

Key Features

- Directional or omni-directional beam pattern, depending on application
- Externally configurable as transponder, responder or pinger
- Can be supplied with remote transducer

Applications

- General purpose tracking and positioning applications
- Static and dynamic operations

600 Series Low Frequency Beacons offer all round flexibility for long range or deep water applications.

This Series is compatible with all major LF tracking systems operating worldwide.

Technical Specification

MODEL TYPES – PHYSICAL SPECIFICATION

Housing material; Hard anodised aluminium with clear protection sleeve (669,666,663) and stainless steel cage

<table>
<thead>
<tr>
<th>Beam Pattern</th>
<th>SPL</th>
<th>Survival Depth</th>
<th>Diameter</th>
<th>Length</th>
<th>Weight air/water</th>
</tr>
</thead>
<tbody>
<tr>
<td>669</td>
<td>±90°</td>
<td>191dB</td>
<td>3000m</td>
<td>130mm</td>
<td>15.0kg/7.0kg</td>
</tr>
<tr>
<td>666</td>
<td>±60°</td>
<td>196dB</td>
<td>3000m</td>
<td>130mm</td>
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</tr>
<tr>
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<td>±30°</td>
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<tr>
<td>659</td>
<td>±90°</td>
<td>191dB</td>
<td>3000m</td>
<td>125mm</td>
<td>21.0kg/11.0kg</td>
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ELECTRICAL SPECIFICATION

Battery

Battery type: Rechargeable NiMWH
600 Series Low Frequency Beacon Technical Specification

Listening life
- 669, 666, 663: 90 days
- 659, 656, 653: 120 days

Operational life
Dependent on pulse rate and operational mode. (Quoted in Kongsberg HiPAP mode)
- 669: 100 hours at 1.0pps
- 666: 50 hours at 1.0pps
- 663: 50 hours at 1.0pps
- 659: 200 hours at 1.0pps
- 656: 100 hours at 1.0pps
- 653: 100 hours at 1.0pps

Configuration
- Transmit frequency range: 10 - 16kHz
- Receive frequency range: 9 - 12.5kHz
- Turn around time: 15/30/60ms dependent on channel
- Transmit pulse width: 1.5/10ms dependent on channel
- Available channels: 144

External Inputs
- Connector type: VSG 4-BCL
- Responder key: + 5 to 25 Volts
- External power: 22 to 35 Vdc@120mA
- Charge: Used with 982 Smart Charger
- Ground: Common ground

USBL COMPATIBILITY
- Kongsberg: HPR/HiPAP
- ORE/Edgetech: USBL

OPTIONS
- Compatibility with USBL systems not listed above
- Non-rechargeable batteries (alkaline)
- Remote transducer (supplied with Model BCN-0610 electronic bottle);
  RM90, omni-directional, depth rated to 1500m. RM45, directional, depth rated to 2000m. RM15,
  directional, depth rated to 4000m. Interconnect cable, 2m standard.
- Survival depth to 6000m
- Depth sensors 100m/300m/1000m/2000m/4000m (adds D suffix to model number)
- Floatation collar (659, 656, 653)