1439 Activation Transponder

Key features

- Secure digital spread spectrum signalling for remote switching
- 7200 channel IDs
- 5A contact rating
- Ranging and positioning with Easytrak Pyxis, Nexus and V-Nav
- Robust and lightweight
- Configure using 3510 PAM Portable

Applications

- Secure remote actuation
- Metocean equipment positioning and recovery
- Ocean Bottom Seismic (OBS) equipment positioning and recovery

Activation Transponder Overview

The 1439 Activation Transponder is a combined positioning transponder and triggering device, designed for use in a wide range of subsea control and positioning tasks.

Providing the twin functions of confirming safe distance from a target and receiving and acting upon a specified acoustic signal, the 1439 Activation Transponder can be used as a remote trigger in many applications including to actuate a hydraulic valve or inflate a lift bag.

Whilst functionality with most aae equipment is possible, exclusive ‘Sole User Codes’ (SUC) are available, securing a specific channel and thereby prohibiting actuation from a secondary source.
Physical Specification

<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>
</tr>
</thead>
<tbody>
<tr>
<td>1439</td>
<td>±90°</td>
<td>184dB</td>
<td>600m</td>
<td>51mm</td>
<td>328mm</td>
<td>850/340g</td>
</tr>
</tbody>
</table>

Electrical Specification

- **Battery type**: 12VDC primary alkaline
- **Battery life**: 180 days

Operational

- **Transmit source level**: 189dB re 1μPa @1m
- **Transmit frequency range**: MF 26 – 30kHz
- **Receive frequency range**: MF 18 – 28kHz
- **Channel IDs**: 7200, 720 unique interrogates, 10 unique replies
- **Telemetry Commands**: Secure command and time out fail safes
- **Control and Configuration**: 3510 PAM Portable control unit
- **Actuator**: 12VDC 5A rating normally open.
- **Actuator Pulse Length**: 30 seconds single activate per command
- **Connection**: MC-BH-2F 2-way bulkhead, female
  - MC-IL-2M supplied with locking collar

Compatibility

- 3510 PAM Portable and 3190 dunker
- Easytrak Pyxis
- Easytrak Nexus 2

Options

- User defined command channels
- User defined actuator and switching options
- Positive feedback loop for acoustic confirmation of actuation
- Rechargeable battery pack
- Remote transducer

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

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