

# 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

| Model | Beam Pattern | SPL   | Survival Depth | Diameter | Length | Weight in Air / Water |
|-------|--------------|-------|----------------|----------|--------|-----------------------|
| 1439  | ±90°         | 184dB | 600m           | 51mm     | 328mm  | 850/340g              |

## 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 - 26kHz  |
| 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<br>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