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 MC-IL-2M supplied with locking collar

Compatibility

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

Options

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

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