

## 1500 Series Acoustic Release Beacon



### Key Features

- Positive Drive-Off mechanism
- Command and configured by 3510 PAM and Easytrak Nexus
- Spread Spectrum replies
- SWL includes a 4x factor of safety
- Also operates as standard acoustic positioning beacon with Easytrak Nexus

### Applications

- Oceanographic long term marking
- Equipment recovery
- Easytrak Nexus calibration
- V-Nav Positioning system compatible

The **1500 Series Release Beacons** are ideal for long term environmental and metocean observations. Operating with either the 3510 PAM or Easytrak Nexus, the beacons incorporate Spread Spectrum technology for added 'uplink' reliability. Both the field proven release mechanism have a low susceptibility to biofouling.

## Technical Specification

### PHYSICAL SPECIFICATION

#### Construction:

**Model 1519:** PVC tube with stainless steel load bearer. Nylon release block. Factory fitted pressure release valve.

**Model 1559:** Hard anodised aluminium housing with stainless steel load bearer. Nylon release block. Factory fitted pressure release valve

| Model | Beam Pattern | SPL   | SWL*  | Release Load | Survival Depth | Beacon Diameter | Overall length | Weight air/water |
|-------|--------------|-------|-------|--------------|----------------|-----------------|----------------|------------------|
| 1519  | ± 90°        | 184dB | 75kg  | 75kg         | 400m           | 110mm           | 499mm          | 4.6/2.1kg        |
| 1559  | ± 90°        | 187dB | 250kg | 250kg        | 1000m          | 125mm           | 1350mm         | 19.6/8.7kg       |

\*SWL includes a 4x factor of safety.

## 1500 Release Beacon Technical specification continued...

### ELECTRICAL SPECIFICATION

#### Battery

|                                    |                 |                |
|------------------------------------|-----------------|----------------|
| Battery type                       | Alkaline        |                |
| Listening life<br>(At 2°C ambient) | 1519; 12 months | 1559; 60months |
| Releases                           | 70              |                |

1519; A single battery pack is fitted. This is split to separately power the release motor/transmitter and the receive/processor electronics. This extends overall battery life and facilitates field servicing.

1559; Three battery packs are fitted. Separate battery packs for the receive/processor electronics, transmitter and motor. This extends overall battery life.

### TWO-WAY COMMUNICATION

|                  |   |
|------------------|---|
| Frequency        | MF, 17 to 32kHz                               |
| Status Telemetry | Acknowledge arm, Acknowledge release, Battery |
| Commands         | Arm, Release, Battery Status, ID Commands     |

### COMPATIBILITY AND CONFIGURATION

All configuration commands are acoustically coupled

|               |                                    |
|---------------|------------------------------------|
| 3510 PAM      | 1023 Identities                    |
| Eaytrak Nexus | 1023 Identities                    |
| V-Nav         | 1023 Identities (positioning only) |

### OPTIONAL EQUIPMENT

Syntactic flotation and line canister to mark and recover seabed equipment

### ACCESSORIES

Replacement alkaline battery pack

Model 1519, additional tether block

*Please consult the AAE sales team for further information*



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