

# 1500 Series MF Acoustic Release Beacon



## Key features

- Positive Drive-Off mechanism
- Command and configured by 3510 PAM, Easytrak Nexus systems and Easytrak Pyxis
- Spread spectrum replies
- Also operates as standard acoustic positioning beacon with Easytrak Nexus systems and Easytrak Pyxis
- 4x Factory of safety
- Uniquely assigned release identities

## Applications

- Oceanographic long term marking
- Equipment recovery
- Easytrak Nexus calibration

## MF Acoustic Release Beacon Overview

The 1500 Series MF Release Beacons are ideal for long term environmental and metocean observations. Operating with either the 3510 PAM, Easytrak Nexus, or Easytrak Pyxis. 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 housing with stainless steel protection cage and release shaft. Nylon release block. Factory fitted pressure release valve.

**Model 1559:** Hard anodised aluminium housing with stainless steel protection cage and release shaft. 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 | 125kg | 125kg        | 400m           | 102mm           | 550mm          | 4.6/2.1kg         |
| 1559  | ±90°         | 187dB | 250kg | 250kg        | 1000m          | 125mm           | 1048mm         | 19.6/8.7kg        |

## Electrical Specification

### BATTERY

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

### 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 |
| Easytrak Nexus | 1023 Identities |

## Optional Equipment

- Syntactic flotation
- Line canister to mark and recover seabed equipment (1519 release only)

## Accessories

- Replacement alkaline battery pack; REL-1519 part # [REL-1519-3000], REL-1559 part # [REL-1450-3000]
- Replacment nylon release block; Both varients [REL-1519-2010]