

# 1500 Series MF Acoustic Release Beacon



## Key features

- Positive Drive-Off mechanism
- Command and configured by 351x 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 and monitoring
- Equipment Deployment & 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 351x PAM, Easytrak Nexus, or Easytrak Pyxis. The beacons incorporate Spread Spectrum technology for added 'uplink' reliability.

All release mechanisms are field proven and 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 1529P & 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	Pitch and Roll Accuracy Vertical Operation $\pm 60^\circ$	Survival Depth	Beacon Diameter	Overall length	Weight air/ water
1519	$\pm 90^\circ$	184dB	125kg	125kg	N/A	400m	110mm	500mm	4.6/2.1kg
1559	$\pm 90^\circ$	187dB	250kg	250kg	N/A	1000m	125mm	1350mm	19.6/8.7kg
1529P	$\pm 90^\circ$	187dB	250kg	250kg	$\pm 1^\circ$	1000m	140mm	810mm	11/6kg

## Electrical Specification

### BATTERY

Battery type	Alkaline		
Listening life (At 2°C ambient)	1519; 12 months	1529P; 24 months	1559; 60months
Releases	70		

### TWO-WAY COMMUNICATION

Frequency	MF, 17 to 32kHz
Status Telemetry	Acknowledge arm, Acknowledge release, Battery, Inclination*
Commands	Arm, Release, Battery Status, ID Commands, Range, Inclination*

\*supported models only

### COMPATIBILITY AND CONFIGURATION

All configuration commands are acoustically coupled

351x PAM	1023 Identities
Easytrak Nexus	1023 Identities

## Accessories

- Replacement alkaline battery pack; REL-1519 part # [REL-1519-3000], REL-1529P part # [REL-1529P-3000], REL-1559 part # [REL-1450-3000]
- Replacment nylon release block; Both variants  
REL-1519 & REL-1559 #REL-1519-2010  
REL-1529P # REL-529P-2002

## Optional Equipment

- Syntactic flotation
- Line canister to mark and recover seabed equipment