

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

MODEL TYPES & 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	$\pm 90^\circ$	184 dB	125 kg	125 kg	N/A	400 m	110 mm	500 mm	4.6/2.1 kg
1559	$\pm 90^\circ$	187 dB	250 kg	250 kg	N/A	1000 m	125 mm	1350 mm	19.6/8.7 kg
1529P	$\pm 90^\circ$	187 dB	250 kg	250 kg	$\pm 1^\circ$	1000 m	140 mm	810 mm	11/6 kg

Electrical Specification

Battery Type	Alkaline
Listening Life	1519: 12 months 1529P: 24 months 1559: 60months
Releases	70

Two-Way Communication

Frequency	MF, 17 to 32 kHz
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]
- Replacement 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