

500 Series Acoustic Release Beacon



The **500 Series** release beacon provides the means by which scientific, survey or operational equipment can be deployed or reliably retrieved from its anchored seabed mooring.

Its positive drive-off mechanism ensures a reliable mechanical release in high bio-fouling environments.

Key Features

- Positive drive-off mechanism
- Command and configured by 3510 PAM and Easytrak Nexus and Lite
- Reliable FSK acoustic command protocol
- SWL includes a 4x factor of safety
- Field adjustable internal frequency and release identities
- Also operates as standard acoustic positioning beacon with Easytrak Nexus and other standard industry systems

Applications

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

Technical Specification

PHYSICAL SPECIFICATION

Housing material; hard anodised aluminium

Model	Beam Pattern	SPL	SWL*	Release Load	Survival Depth	Beacon Diameter	Overall length	Weight air/water
529P	± 90°	187dB	250kg	250kg	1000m	100mm	810mm	11.0/6.0kg

*SWL includes a 4x factor of safety

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ELECTRICAL SPECIFICATION

Battery

Battery type	Alkaline
Listening life (At 2°C ambient)	4 months
Releases	70

Three battery packs are fitted to separately power the release motor, the receive/processor electronics and transmit electronics. This extends overall battery life and facilitates field servicing.

TWO-WAY COMMUNICATION

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

COMPATIBILITY AND CONFIGURATION

Internally configured

Command /control

3510 PAM	16 Identities
Easytrak Lite / Nexus	16 Identities

Navigation

Easytrak Nexus, Easytrak Lite, V-Nav Positioning System, Kongsberg HPR4 and HPR3, ORE Edgetech, Sonardyne

OPTIONAL EQUIPMENT

- Syntactic flotation to mark and recover seabed equipment
- Ten tonne release frame

ACCESSORIES

Replacement alkaline battery pack

Model 529P, additional tether block



APPLIED ACOUSTICS
Underwater Technology

An AAE Technologies Group Company

Due to continual product improvement, specification information may be subject to change without notice.
500 Series Acoustic Release Beacon/ March 2015
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