



# APPLIED ACOUSTICS

Underwater Technology



## : Technical Specification

### 1500 Series Acoustic Release Beacon

The 1500 Series Acoustic Release Beacons provide the means by which scientific, survey or operational equipment can be deployed or reliably retrieved from its anchored seabed mooring. Spread Spectrum technology is used for robust telemetry and increased range

Standard products and customised versions are available to meet specific underwater release, command or control challenges.



MODEL 1529 ACOUSTIC RELEASE BEACON

#### Key Features

- : Positive Drive-Off Mechanisms ensure reliable mechanical release in high biofouling environments
- : Choice of beam pattern, directional or omni-directional
- : Externally-accessed power switch to preserve battery life
- : Reliable Spread Spectrum communications
- : Over 1020 possible command channels
- : Compatible with Easytrak Nexus (Range/Bearing/Status Telemetry/Release) and PAM Portable (Range/Status Telemetry/Release)
- : Field adjustable internal frequency and release identities using PAM Portable
- : Lightweight, compact design

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**MODEL TYPE—PHYSICAL SPECIFICATION**

Construction: PVC Tube with fibreglass load bearer. Hardened stainless steel release components. Factory fitted pressure release valve.

	Beam Pattern	SPL	SWL*	Release Load	Survival Depth	Dimensions (mm)	Weight air/water
<b>Model 1529</b>	<b>±90°</b>	<b>187dB</b>	<b>125kg</b>	<b>125kg</b>	<b>500m</b>	<b>517 x 146 110 Ø housing</b>	<b>8/2.8kg</b>

\*including a 4x factor of safety

**ELECTRICAL SPECIFICATION**

**Battery**

Type Alkaline quoted (longer life options available)

Listening Life (at 2°C alkaline) Model 1529; 12 months

Transmitting Model 1529; 100,000 replies

Releases 70

Separate battery packs for Release Motor, Receive/Processor Electronics and Transmitters are utilised to ensure release on command should transmitter batteries become exhausted. This advantage also extends overall battery life.

**TWO-WAY COMMUNICATION**

Spread Spectrum Navigation plus;

Status Telemetry (Up) Acknowledge arm, Acknowledge release, Battery status, Status OK, Channel number, Motor operational, Releasing

Commands (Down) Arm, Release. Battery request, Status request, Release reset, Prime release, Change ID

**COMPATIBILITY**

		Available Channels
Tracking System	Applied Acoustics' PAM Portable	1023 Spread Spectrum
	Applied Acoustics' Easytrak Nexus	1023 Spread Spectrum

