

ACOUSTIC RELEASE

S3X SERIES ACOUSTIC RELEASE TRANSPONDERS



- Available in a choice of 2 release mechanisms, either high load (S-Type) Positive Drive-Off Mechanism, or lower cost (P-Type) Block End Release Transponder (BERT). Both offer reliable mechanical release in high biofouling environments.
- Reliable FSK acoustic command sequence for security of command in high noise / reverberant environments.
- Over 2000 possible command channels (1000 as standard).
- Compatible with existing PAM units for range / release. (Simple software upgrade required).
- Part of a range of lightweight, medium duty and heavy duty models.
- Also operate as standard navigation transponders – compatible with Simrad HiPAP / HPR400 / HPR300, HPR1507 (LF), Sonardyne USBL / ORE TPII (MF & LF).

53x Series Release Transponder – three transducer types are available.

- Model 539: 188dB ± 90 degrees
- Model 536: 191dB ± 60 degrees
- Model 533: 195dB ± 30 degrees

Specifications:	Model 53x P-Type	Model 53x S-Type
Depth Rating:	2000m.	1500m.
SWL:	250kg.	1500kg.
Release Load – 2000m	150kg	750kg.
Release Load – 1000m	250kg	
Length:	1095mm.	1065mm.
Tube Diameter:	100mm.	100mm.
Weight in Air/Water:	12/8kg.	16/9kg.
Battery Life - Listening	12 months.	12 months.
- Transmitting	200,000 replies.	200,000 replies.
- Releases	70.	35.

Above battery life times are based on Alkaline batteries. Longer life options available. (Complete sets of alkaline battery packs are easily obtainable from AAE or Agents).

Options:

- Increased depth ratings
- Higher source levels
- Alternative beam patterns

Models are generally compatible with most USBL systems for range/bearing applications and have field adjustable internal frequency and release identities. Low frequency versions are also available. They have the following two-way communications:-

Status Telemetry For:

- | | |
|-----------------------|---------------------|
| - Acknowledge Arm | - Tilt X 15 degrees |
| - Acknowledge Release | - Tilt Y 15 degrees |
| - Acknowledge Sleep | - Motor Turned |
| - Battery | - Releasing |
| - Status OK | |
| - Tilt OK | |

Commands For:

- Arm
- Release
- Sleep
- Status Request (3)
- Release Reset
- Anti-Jam

Separate battery packs for Release Motor, Receive/Processor Electronics and Transmitters are utilised to ensure release on command should transmitter batteries become exhausted. In this way extended battery life can also be achieved. Other models also available, consult factory for further information.

Compatibility:

Channels/frequencies	HPR300:	14, transponder/responder.
	HPR400:	14+56, transponder/responder.
	HiPAP:	56, transponder/responder.
	Sonardyne USBL:	14, transponder/responder.
	ORE Trackpoint II:	8, transponder/responder. 5, pinger.
	Emergency Pinger:	37.5 kHz.
	Test Channels:	3.

December 2002



Marine House, Marine Park, Gapton Hall Road, Great Yarmouth, NR31 ONL, England
 Tel: + 44 (0) 1493 440355 Fax: + 44 (0) 1493 440720
 www.appliedacoustics.com email: general@appliedacoustics.com

Due to continual product improvement these specifications may be subject to change without notice.