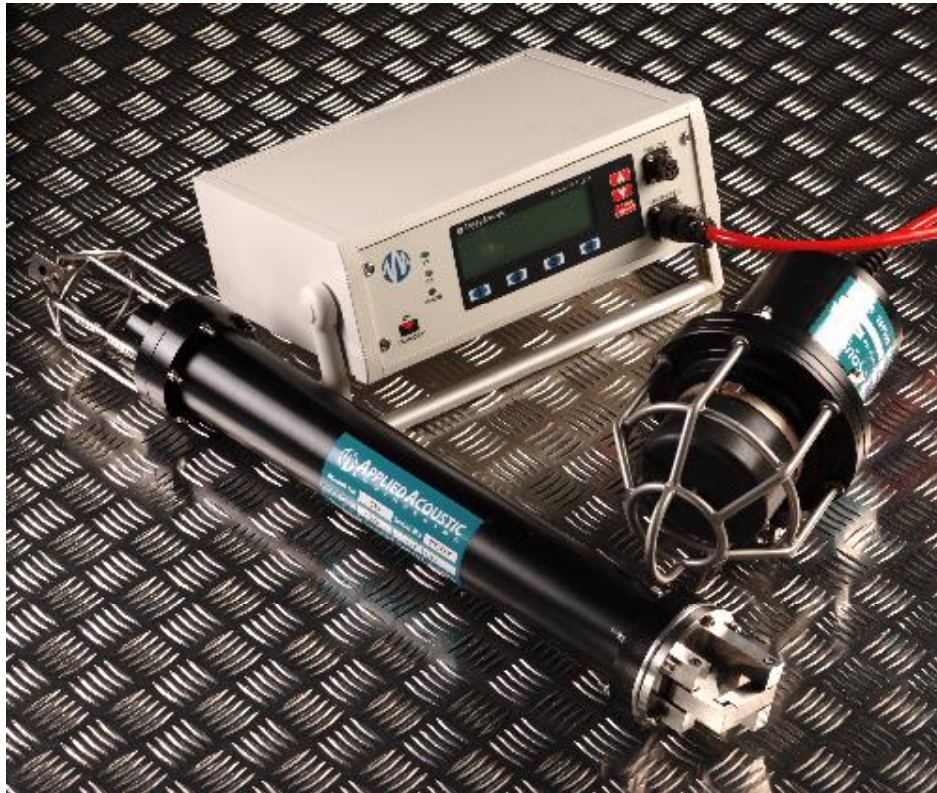


# ACOUSTIC RELEASE

## RAE ACOUSTIC RELEASE TRANSPONDERS



- **Proprietary Positive Drive-Off Mechanisms** ensure 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).
- **Available in lightweight, medium duty and heavy duty variants.**
- **Also operate as standard navigation transponders - compatible with Simrad HiPAP / HPR400 / HPR300, HPR1507 (LF), Sonardyne USBL / ORE TPII (MF & LF).**

The **500 Series Acoustic Release Transponders** are currently available in the following models.

**LIGHTWEIGHT 51X Series**

MF Omni-Directional 186dB  
 Depth Rating: 1000m  
 Battery Life: 6 months (listening)  
 SWL: 300kg  
 Length: 800mm  
 Tube Diameter: 75mm  
 Weight in air/water: 7/4 kg

**MEDIUM DUTY 53X Series**

MF 186dB Omni-Directional (Directional to order)  
 Depth Rating: 1000m / 2000m  
 Battery Life: 1 year (listening)  
 SWL: 1500kg  
 Release Load: 750kg  
 Length: 1065mm  
 Tube Diameter: 100mm  
 Weight in Air/Water: 16/9 kg

**HEAVY DUTY 55X Series**

MF 188dB Omni. Directional 195dB variants available  
 LF Omni 188dB. Directional 198dB  
 Depth Rating: 1000m / 2000m  
 Battery Life: 3 years (listening)  
 SWL: 2000kg  
 Release Load: 750/1200 kg  
 Length: 1300mm  
 Tube Diameter: 125mm  
 Weight in Air/Water: 25/14 kg

**DEEP WATER 56X Series**

LF Omni 191dB. Directional 198dB  
 Depth Rating to 6000m  
 Battery Life: 3 years (listening)  
 SWL: 2000kg  
 Release Load: 1500 kg  
 Length: 1500mm  
 Tube Diameter: 150mm  
 Weight in Air/Water: 32/17 kg

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

**STATUS TELEMETRY FOR:**

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

**COMMANDS FOR:**

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

Separate battery packs for Release Motor (2 packs), Receive/Processor Electronics, and Transmitters are utilised to ensure release on command should transmitter batteries become exhausted. Extended battery life can be achieved; other models available; consult our factory or further information.

December 2001



Marine House, Marine Park, Gapton Hall Road, Great Yarmouth, NR31 0NL, 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.**