

OCEANOGRAPHIC ACOUSTIC RELEASE

OCEANO 2500S Universal (AR861B2S)



COMPACT & ROBUST DESIGN

The OCEANO 2500S Universal (AR861B2S) is a robust, reliable and field-proven acoustic release which is designed for deployment in up to 6,000m water depth and constructed of high tensile strength Super Duplex stainless steel with excellent corrosion resistance.

The compact yet durable design of the OCEANO 2500S Universal (AR861B2S) Acoustic Release is ideal for long term deployment and harsh working conditions.

The standard features include a safe working load of 2,500kg for lifting operations and a 2,500kg well proven and positive drive-off release mechanism, long ranging capability as well as Pinger mode and Diagnostic built-in functions.

All OCEANO 2500S Acoustic Releases are controlled using the LF Surface Telecommand Deck Set (TT801/TT301) associated to a dunking transducer.

APPLICATIONS

- Very long-term oceanographic mooring recovery
- Pinger mode for subsea vehicle tracking and pipeline pig-tracking
- Active target for checking sonar's or training operators
- Remote-controlled operations (acoustic release, squibs, explosive detonator, actuation of subsea mechanical devices, etc.)
- Data transmission via analogue telemetry link (diagnostic for verticality, battery voltage, pressure ...)

FEATURES

- **2,500 kg SWL** (tested at 5,000 kg) **and 2,500 kg release load (RL) mechanism**
- Central loading with positive drive-off release mechanism
- Corrosion resistant 6,000 m depth, super duplex stainless steel (UNS 32550) housing
- Secure 8-bit FSK 2-state command coding system with over 300,000 unique command codes
- Ranges in excess of 10,000 m in good environmental conditions
- Acknowledgement and execution replies to FSK commands
- Ranging capability to assist relocation
- Very low power consumption with standby mode for the transmitter section
- Diagnostic testing via analogue telemetry link (time modulation between acoustic pulses)
- Pinger mode compatible with existing range tracking systems
- Constant source level across pulse length and battery life
- Standard alkaline batteries

OPTIONS

- Remote Transducer Head configuration
- Timed-Release function (on request only)
- Switch closure output / remote actuation of subsea mechanical devices
- Lithium battery pack without hardware modification
- Al-In sacrificial anodes kit

OTHER MODELS

- Different releases hook models available. Please consult us.
- Titanium housing for very deep water (AR891B2T rated to 12,000m depth) or demanding warm waters applications (AR861B2T)



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Specifications subject to change without notice

AR861B2S – Jan. 2012



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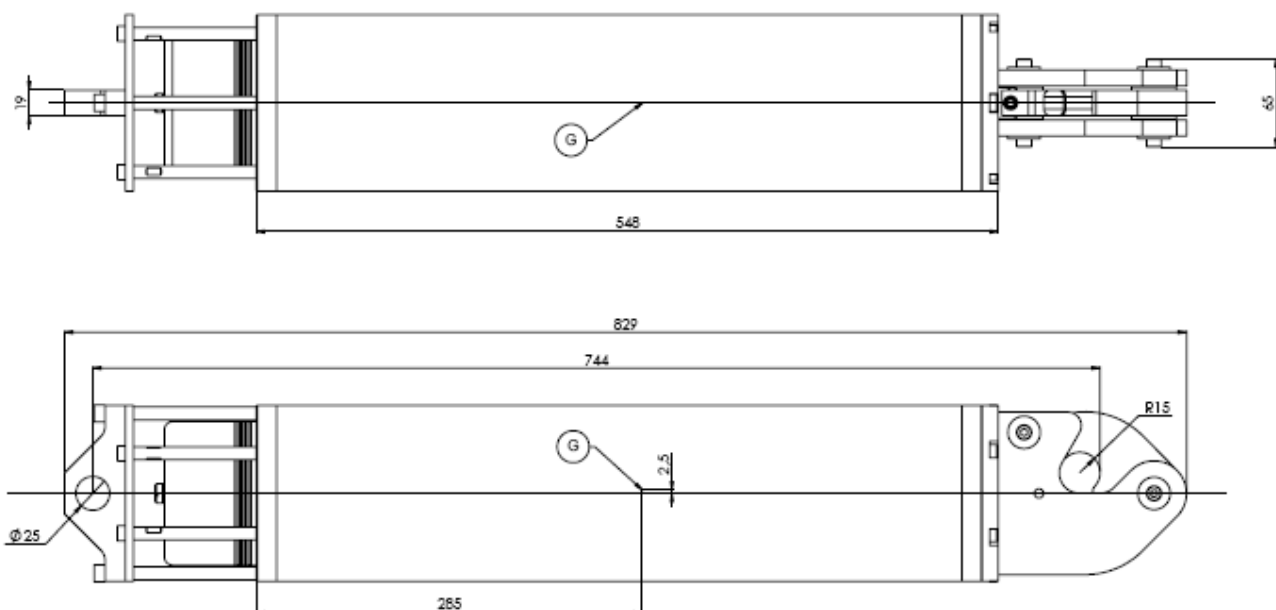


SPECIFICATIONS

| | | |
|----------------------------|---|--|
| Assy. Drawing Number | : | 3929100 |
| Mechanical Construction | : | UNS32550 Super Duplex Stainless Steel, |
| Lifting / Release Capacity | : | 2,500 kg SWL / 2,500 kg Release Load / 5,000 kg Proof Tested |
| Release Actuation | : | High torque DC motor with positive drive-off release mechanism |
| Release Ring | : | 3t/SW/L Oval Ring, drawing 9103234 |
| Depth Rating | : | 6,000m (maximum 624 Bar pressure) |
| Temperature | : | -5°C to +40°C Operating / -20°C to +70°C Storage |
| Operating Frequency | : | Low Frequency (8.0 to 17.5 kHz) |
| Transducer Beam pattern | : | Omni-directional |
| Receiving Channels | : | FSK- 2 states receiver with AGC system within 8 to 16 kHz frequency bandwidth |
| Receive Sensitivity | : | 78 +/- 5 dB ref 1µPa |
| Transmit Pulse | : | Tonal pulse (10ms) or MFSK-POSI (16 kHz central, 3 kHz bandwidth, 25 ms wide) |
| Transmit Source Level | : | 191 (+/4) dB re 1µPa @ 1m constant across battery life |
| Acoustic Commands | : | Ranging, Release, Release with Pinger, Pinger mode ON/OFF, Diagnostic (Verticality status and Battery voltage) |
| Command Confirmation | : | Acoustic acknowledgement pulse of Command Receipt and Execution Release confirmation with single reply or Pinger mode reply. |
| Internal Battery | : | 18 x D-size Alkaline Cells (3 parallel banks of 6 cells in series) / Lithium on option 1 x 9V Alkaline back-up cell (6LR61) for motor operation |
| Listening/Quiescent Life | : | Alkaline – 50 months @ 20°C / 36 months @ 0°C Lithium – 96 months @ 20°C / 84 months @ 0°C |
| Release Consumption | : | 100 Release Operations reduce listening life by about 15 days |
| Overall Dimensions | : | Dia. = 130 mm / Length = 829 mm |
| Overall Weight | : | 30 kg (Air) / 22 kg (Water) |
| Shipping | : | Plywood transit case, 940x 310 x 280 mm, 43 kg |

ORDERING CODE

Model / Ordering Code : **KAA00077**



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