Oceano AR891B2T

Oceano 2500T Universal/Hadal - Oceanographic acoustic release

The Oceano AR891B2T is a robust, reliable and field-proven acoustic release which is designed for deployment down to 12 000 m water depth and constructed of high tensile strength titanium grade 5 with excellent corrosion resistance.
The compact yet durable design of the Oceano AR891B2T acoustic release is ideal for long term deployment and harsh working conditions.

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

The Oceano AR891B2Tacoustic release is controlled using the LF surface telecommand deck set (TT801 or any older product) associated to the appropriate transducer.

FEATURES

- 2 500 kg SWL* and 2 500 kg RL** mechanism
- 12 000 m water depth
- Corrosion resistant titanium grade 5 housing
- Secure 8-bit FSK 2-state command coding system
- Acknowledgment of received and executed commands
- Very low power consumption
- Off-the-shelf alkaline batteries
- Back-up cell for release mechanism

OPTIONS

- Remote transducer head configuration
- Lithium batteries (no hardware modification)
- Tandem coupling kit

APPLICATIONS

- Long-term instrumented moorings
- Ultra-deep moorings
- Extreme environmental conditions

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TECHNICAL SPECIFICATIONS

General

Ordering part number	KAA00097
Assembly drawing number	3929690
Release ring	2.5t/SWL pear-shaped ring drawing 9103624
Operating temperature	-5°C to +40°C
Storage temperature	-20°C to +70°C
Acoustic commands	Ranging, release, release with pinger, pinger mode ON/OFF, diagnostic (verticality status and battery voltage)
Shipping	Plywood transit case, 940 x 310 x 280 mm, 38 kg

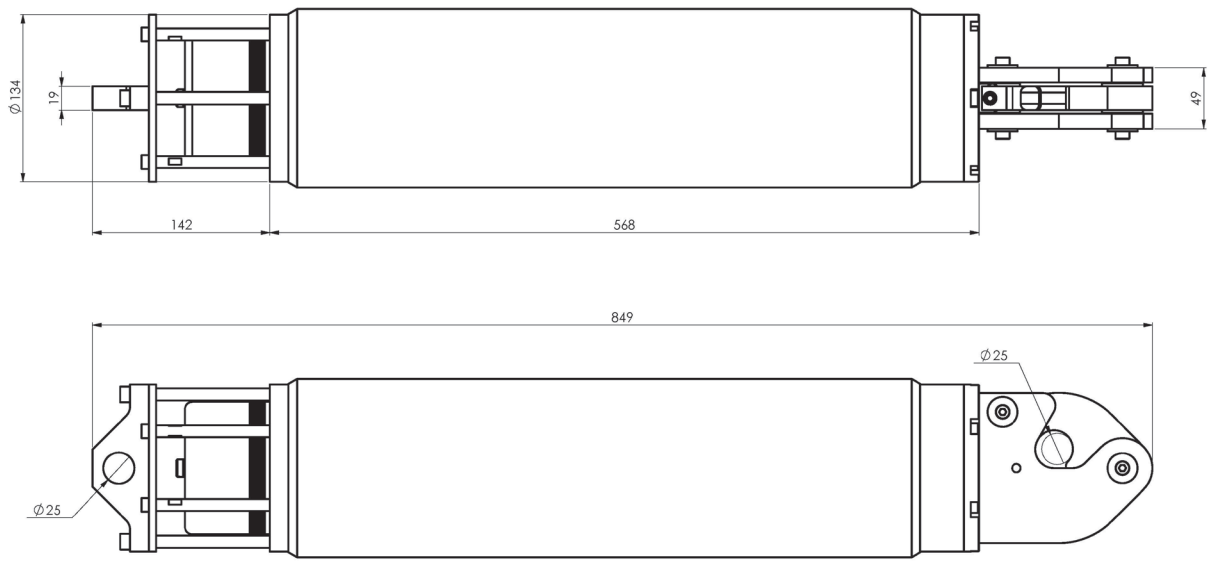
Mechanical

Construction	Titanium grade 5 (TA6V)
Load characteristics	2 500 kg SWL* / 2 500 kg RL** / 5 000 kg TL***
Depth rating	12 000 m (maximum 1250 bar pressure)
Overall dimensions (dia x L)	143 x 849 mm
Overall weight (air / water)	27 kg / 17 kg

Acoustical

Operating frequency	Low frequency (8.0 to 17.5 kHz)
Transducer beam pattern	Omnidirectional
Transmit source level	191 +/-4 dB ref. 1µPa @ 1 m constant across battery life
Transmit pulse	Tonal pulse (10 ms) or MFSK-POSI code (16 kHz central, 3 kHz bandwidth, 25 ms wide)
Operating life	Alkaline – 50 months @ 20°C / 36 months @ 0°C Lithium – 96 months @ 20°C / 84 months @ 0°C
Ranging	In excess of 12 000 m in good sea conditions

Mechanical drawing



*SWL Safe Working Load. The maximum static or dynamic load that can be supported by the instrument in normal operating conditions with no release command in progress.

**RL Release Load. The maximum load that can be supported by the hook while it is activated (DC motor rotating).

***TL Test Load. The maximum load that can be supported by the instrument without permanent damage or water ingress (not to be used in normal operation mode).

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