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OCEANO RELEASES

OCEANOGRAPHIC ACOUSTIC RELEASES

The rugged and reliable **OCEANO** oceanographic acoustic releases are suitable for all moorings applications in all seas and environmental conditions. The modular and flexible design allows specific configuration such as ultra-deep (12 000 m), ultra long-life moorings (up to 10 years) as well as acoustic actuators for valves, cable cutters, etc...

FEATURES

- Proven reliability (over 10 000 units operated)
- Very low power consumption
- Corrosion resistant
- Customizable configurations

BENEFITS

- Mooring safety (corrosion, battery life, command coding)
- Long-term moorings in all seas even at low temperature
- Reduced maintenance
- Standard products or special designs for all applications

APPLICATIONS • Oceanographic moorings • Long-term instrumented moorings • Ultra-deep moorings
• Extreme environmental conditions • Acoustic actuators (hydraulic shackle or cable cutter)



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TECHNICAL SPECIFICATIONS



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**OCEANO 2500
LIGHT**



**OCEANO 2500
UNIVERSAL**



OCEANO 5000

RL (kg) – release load	500	2 500	5 000
SWL (kg) – safe working load	2 500	2 500	5 000
TL (kg) – test load	5 000	5 000	10 000
MBL (kg) – minimum breaking load	n/a	10 000	20 000
Standard depth rating (m)	6 000	6 000	6 000
Optional depth rating (m)	7 000	12 000	12 000
Construction	Super duplex stainless steel Titanium optional	Super duplex stainless steel Titanium optional	Super duplex stainless steel
Weight (air / water) kg	26 / 18	30 / 22	40 / 31
Size (OD x length) mm	130 x 725	130 x 830	130 x 908

COMMON CHARACTERISTICS

Operating frequency	8-16 kHz	Receive sensitivity	< 83 dB ref 1µPa @1 m
Command coding	2 x 8bits words unique code, FSK-RZ 2 states	Transmit source level	> 192 dB ref 1µPa @ 1 m / 12 kHz
Power secure	off-the-shelf alkaline or lithium (optional) batteries + backup battery cell for release mechanism	Beam pattern	omnidirectional
		Battery life	up to 4 years (alkaline) @ 20 deg C

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

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

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

****MBL The lowest breaking strain when tested to failure.

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Specifications subject to change without notice.