



## 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



**OCEANO 2500  
LIGHT**



**OCEANO 2500  
UNIVERSAL**



**OCEANO 5000**

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

## COMMON CHARACTERISTICS

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