



OCEANO MF - TRANSPONDERS

ACOUSTIC MF - TRANSPONDER RANGE

iXBlue provides a wide range of medium frequency transponders to operate with RAMSES (medium frequency) and GAPS USBL systems. It includes transponders for shallow water application (export free) to full ocean depth versions, reduced size for small vehicles or full size with long battery life, releasable or expendable, and optional features for easier integration.

FEATURES

- Full range of products
- Option available for user configuration
- Releasable or expendable
- Low power consumption with off-the-shelf or rechargeable batteries

BENEFITS

- Dedicated transponders for all applications
- High performance, increased flexibility
- For use as autonomous beacons or on subsea vehicles
- Long-term deployment and large ping capacity

APPLICATIONS • For use with **iXBlue**'s medium frequency positioning systems • ROV tracking
• AUV tracking • Tow fish tracking • Marine construction • Structure monitoring
• DP • Diver tracking



OCEANO MF-TRANSPONDERS

TECHNICAL SPECIFICATIONS



Product name	RTA 2500 Light / MF	RTA 2500 Universal / MF	ET 862S-R	ETA 62S	MT 832E-R	MT 862S / HD-R	MT 912S-R	MT 932S-R	MTA02C
Depth rating (m)	6 000	6 000	6 000	6 000	3 000	6 000	1 000	3 000	300
Interrogation mode	Tone / WB	Tone / WB	Tone	Tone / WB	Tone	Tone	Tone	Tone	WB
Load characteristics (RL/SWL, tons)	0.5 / 2.5	2.5 / 2.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Construction (optional)	Duplex SS (titanium)	Duplex SS (titanium)	Duplex SS	Duplex SS (titanium)	Aluminium	Duplex SS	Stainless steel	Stainless steel	Composite
Weight (air, water) kg	24 / 17.5	27 / 20.7	25.5 / 16	21 / 15	2.8 / 1.2	5 / 3.5	4.4 / 2.3	5.7 / 3.8	3.9 / 1.4
Size (OD x length) mm	625 x 126	725 x 126	712 x 130	574 x 130	500 x 70	490 x 70	370 x 91	368 x 91	396 x 98

COMMON FEATURES

Operating frequency	20 - 30 kHz
Sound pressure level	191 ± 4 dB ref. 1µPa @ 1m
Receiver sensitivity	95 ± 5 dB ref. 1µPa @ 1m
Radiation pattern	Omni-directional
Signal coding	Transponder mode: Chirp - Command: secure RZ 2-state FSK

PRODUCT DESIGNATION

Product type XX	Series X	Depth X	Frequency X	Load (RL) XX	Construction X	(main) options XX / XX...
AR acoustic release	8 tone interrogation	1 1 000 m	1 LF band	C 500 kg	S stainless steel	R responder plug
RT recoverable transponder	9 miniature beacon	3 3 000 m	2 MF band	B2 2 500 kg	G glass	HD remote hydrophone
ET expendable transponder	A full wideband	6 6 000 m		D 5 000 kg	T titanium	P pressure sensor
MT miniature transponder					E aluminium	DIR directional transducer

Eg: OCEANO MT932S / HD-R

Miniature transponder, stainless steel, 3 000 m WD, with remote transducer head and electric plug