

Oceano TT801

Deck set unit

The Oceano TT801 low frequency band acoustic telecommand unit is designed to activate the full range of Oceano acoustic releases, actuators and releasable transponders from iXblue. Compact, portable, versatile and light weight, the Oceano TT801 can be connected to various dunking transducers depending on the length of cable required and can be easily operated from big research vessels but also very small rubber boats. Oceano TT801 deck set features also a digital receiver fully compatible with CW tonal and Posidonia M-FSK signals for ranging, command acknowledgments and audio confirmation of received signal as well. Oceano TT801 can be operated from internal rechargeable batteries or from external DC and AC power supplies.



FEATURES

- Portable, low cost, friendly manual or remote operation
- Low power consumption (60 hours operation with fully charged internal batteries)
- High noise immunity and ranges up to 12 000 m in good environmental conditions
- Wide frequency band acoustic transmitter (single pulse or single and multi command words)
- Digital & field-programmable acoustic receiver for CW and M-FSK Posidonia signals (ranging)
- Secure FSK coded commands for absolute multi-path protection
- Over 30 000 unique 8-bit codes and more when using ARM & EXECUTION sequence
- Display of range, travel time or data from telemetry receiver
- Visual indication of acknowledgment pulses (reception and execution of remote commands)
- Rechargeable lead-acid batteries (with long autonomy) and built-in trickle battery charger
- Broadband audio output and headphones for audio indication of sonar signal detection
- Directly compatible with LF dunking transducers of PET801P series, rugged transducer model PET661S-TT or acoustic module AM661S.

APPLICATIONS

- Remote control for the complete Oceano range and their variants

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TECHNICAL SPECIFICATIONS

General

Range	up to 12,000 m*
External AC source	100-240 VAC, 47-60 Hz
External DC source	18 to 36 VDC
Internal 24 VDC source	Lead-acid battery with built-in trickle charger
Operating temperature	-5° to +50°C
Storage temperature	-40° to +70°C
Shipping	Wooden transit case with provision for installation of PET801P or PET661S-TT transducer and 30 m long cable

Mechanical

Construction	Splash proof cabinet (IP65)
Cabinet dimensions (L x W x H)	430 x 250 x 160 mm
Weight	9 kg

Acoustical

Operating frequency	Low frequency (8.0 to 18 kHz)
Transducer beam pattern	Omnidirectional
Transmit source level	191 +/-4 dB ref. 1µPa @ 1 m
Transmitter	Tonal pulse (10 ms) or FSK command codes (16 kHz central, 3 kHz bandwidth, 25 ms wide)
Receiver	Tonal pulse of MFSK-Posi code
Mode	Ranging, pinger, single or dual frequency PPM telemetry

Configuration



	Dunking transducer	Rugged transducer	Acoustic module
Content	PET801P & 15 / 30 / 50 m long cable	PET661S-TT & 30 m long eletromechanical cable	AM661S & 100 m long eletromechanical cable
Advantage	Lightweight low cost	Heavier (sinks better)	Better SNR 100 m (standard) ¹ from surface
Application	Standard conditions Shallow water Small ship	Standard conditions Shallow water High current Ship moving	Harsh conditions Noisy environment Deeper water

¹ other cable length on request



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* Performance depends on noise/environment conditions