



Acoustic Releases

Wireless Recovery of Subsea Devices



SHALLOW

MID

DEEP

WIRELESS

PROVEN IN HARSH ENVIRONMENTS

HIGHLY RELIABLE







Teledyne Benthos manufactures a wide range of Acoustic Releases for shallow, mid and deep water operations. Acoustic releases have been used for decades as a safe and reliable means of deploying and recovering critical subsea instrumentation. A secure acoustic command is sent from the topside unit to the subsea unit to release up to 25 tons of in-line instrumentation to the surface for recovery.

All of Teledyne Benthos acoustic releases can be operated from a universal topside unit, which provides access to a wide spectrum of system capabilities and diagnostics to ensure ease of operation and successful instrumentation recovery. With over 50 years of experience in undersea applications, Teledyne Benthos Acoustic Releases have become synonymous with quality and dependability, even in the harshest of environments.



Model 875-TD Shallow Water Release

is a low cost, versatile acoustic release designed for recovery of underwater equipment in coastal and inland waters.





Depth Rating	500 m (1,640 ft.)
Release Load Rating	180 kg (0.2 tons)
Lift Load Rating	455 kg (0.5 tons)
Actuation	High torque motor
Transponder Feature	Up to 3 km slant range
Range Accuracy	1 m
Release Confirmation	Yes (acoustic)
Tilt Indication Feature	-
Battery Life (receiver)	Up to 8 months
Battery Life (transmissions)	-
Factory Set Receiver (freq.)	9-14 kHz
Source Level (nominal)	167 dB ref 1 μPa @ 1m
Weight—In air In water	4.5 kg (10 lbs) 1.4 kg (3 lbs)
Dimensions	48 cm (21 in) length 11.4 cm (4 in) dia.
Construction	PVC, fiberglass, (stainless steel) 875-TD

875-TD Spare Battery (C-270-241-2)

Battery Replacement Kit (includes O-Rings)

(302949) 875 Drop Link (0220-008) Spare-Magnet (B-855-152) Model 875-PUB Pop Up Buoy is configured with a syntactic flotation collar and line canister to mark and recover seabed equipment. 75 m 1/4" spectra line standard 2995 kg (6,600 lbs), other line lengths and diameters available.



Model R2K Mid-Water Acoustic Transponding Release is a full function acoustic release in a rugged and compact stainless steel housing for use in depths to 2000 meters and loads up to 2000 kg.



The R12K Deep Water Acoustic Transponding Release is designed for full ocean depth mooring recovery applications requiring a rugged stainless steel package and 4540 kg load handling. The R12K offers the reliability of the 865 series with more advanced features.



Model HD Load Multiplier for Deep **Releases** is a secondary arm to provide a 5:1 mechanical advantage when used on any Deep Release. This 22,600 kg rated device is used for deployment of anchors and underwater construction applications.



305 m (1,000 ft)

200 lbs static

High torque motor

N/A

N/A

6 months (1 yr. w/lithium)

7-15 kHz

15 kg (34 lbs) 7 kg (15 lbs) positive

55.1 cm (21.7 in) length 39.4 cm (15.5 in) dia. collar

PVC, syntactic foam

875-SB Alkaline Battery (C-270-241-1) Battery Replacement Kit

(includes O-Rings) (302950)

875-LI-SB Lithium Battery (B-855-157)

Spare Magnet (B-855-152)

2,000 m (6,562 ft.)

2,000 kg (2.43 tons)

2,000 kg (2.43 tons)

High torque motor

5-10 km slant range

Positive via digital signal

0-180° in 1° increments

4 years

4 years

9-14 kHz

185 dB ref 1 μPa @ 1m typical

18 kg (40 lbs)

13 kg (29 lbs)

66 cm (26 in) length 15 cm (6 in) dia. housing

stainless steel (ferralium 255)

R2K Alkaline Battery (C-270-388)

866-SL Drop Link

(A-855-124)

866-BA Bar Anode

(A-855-139)

866-A Tandem Release Mounting Kit (B-855-197)

866-ORING Kit (866-ORING-Kit)

12,000 m (39,370 ft.)

5,000 kg (5 tons)

5,000 kg (5 tons)

High torque motor

Up to 12 km slant range

Positive via digital signal

0-180° in 1° increments

4 years

4 years

9-14 kHz

185 dB ref 1 µPa @ 1m typical

36 kg (80 lbs)

28 kg (62 lbs)

93.7 cm (36.9) length 16.4 cm (6.4 in) dia. housing

stainless steel (17-4 PH)

R12K Alkaline Battery

(C-270-388) Drop Link (B-855-186)

R12K Bar Anode

(A-855-82-1)

R12K ORING Kit (865-ORING-Kit)+-

12,000 m (39,370 ft.)

22,600 kg (24.9 tons)

22,600 kg (24.9 tons)

121 kg (268 lbs)

104 kg (230 lbs)

126 cm (47.1 in) length 46 cm (19 in) width (Dim. are w/releases attached)

stainless steel (17-4 PH) high strength carbon steel

008847 Drop Link

The Teledyne Benthos Universal Top Side has been designed to work with all Benthos acoustic releases, transponders and modems, including the SMART products.

NEW Universal Top Side (UTS)

The NEW UTS-9400 is a complete single-unit replacement for all previously offered Teledyne Benthos acoustic deck units.

This Universal Top Side is used to operate all standard acoustic releases and to control and communicate with Teledyne Benthos' full line of acoustic modems and positioning products.

The UTS is the result of a focused engineering effort to devise the ideal top side unit for any level of user. From the novice user to the seasoned pro, the UTS delivers a user-friendly interface, with powerful, intuitive communication, command and control features to ensure you remain in control of your operations at all times.



Features:

- Full color, touch screen display and intuitive menus to simplify operation
- Advanced ambient acoustic condition analysis to ensure your commands get through in even the most challenging environments
- Ability to log all sent and received commands for post processing of mission operations
- RS-232 port for direct connection to a PC or laptop
- USB port for offloading logged data and updating firmware
- Speaker for listening to acoustic signals
- AC or internal battery power
- Low frequency (LF) dunking transducer and 25 meter cable (standard)

- Up to 200 m cable available for high-reliability deep water acoustic communications
- Deck box emulation to command other vendor's products
- Portable or rack mount configurations available



New full-color touch screen display for novice to advanced users.



Test It is a fully functioning "in air" predeployment acoustic tester. This battery operated (AA Alkaline), lightweight unit is capable of generating all commands needed to test your "R" series Release in the lab or on deck prior to deployment. The unit is splash proof and is designed to withstand exposure to marine environments. This unit allows you the opportunity to move freely around the lab or deck of a ship testing your "R" series Releases without the need to have your top side deck unit nearby.





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