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Datasheet

Release Transponder 6 (RT 6–6000)

Description

The Release Transponder 6 (RT 6–6000) is a tough, reliable acoustic release designed for a wide variety of subsea applications and is fully compatible with Sonardyne's 6G® transceivers and USBL systems. RT 6–6000 is derived from mechanics of the, now superseded, but highly reliable 7710 Deep Oceanographic Release Transponders.

RT 6–6000 integrates the functionality of a Sonardyne Wideband®2 compatible navigation transponder coupled with an integrated high load release mechanism.

RT 6–6000 can be tracked and released using all Ranger 2 6G USBL systems or a low-cost deck unit with remote dunking transducer on a 10 metre cable.

Standard features include a Working Load Limit of 1,275 kg (at 4:1) and a spring-assisted release mechanism.

A Battery Disconnect Fob is located on the transducer and uses an internal magnetic switch to electronically disconnect the battery when not in use.

RT 6–6000 is compatible with Sonardyne's standard tandem and high load release frames.

RT 6–6000 is configured with Sonardyne's iWAND 6G portable hand held acoustic transponder test and configuration device.

Key Features

- WLL 1,275 kg (4:1)
- Breaking Load 5,100 kg
- LMF frequency band utilising Sonardyne Wideband 2 ranging and telemetry protocols
- Quick and easy to set-up and operate
- Robust performance in shallow water and reverberant environments around structures etc.
- Real time diagnostics available on ranges to enable quality control
- Reduced mutual interference to further improve simultaneous operations
- Uses Sonardyne Wideband 2 acoustic addresses
- Highly reliable release mechanism
- Omni-directional transducer
- Operation down to 6000 m
- Compatible with Sonardyne 6G transceivers
- Battery disconnect fob to maximise battery life
- Integrated inclinometer(±5° accuracy)
- Battery status reporting

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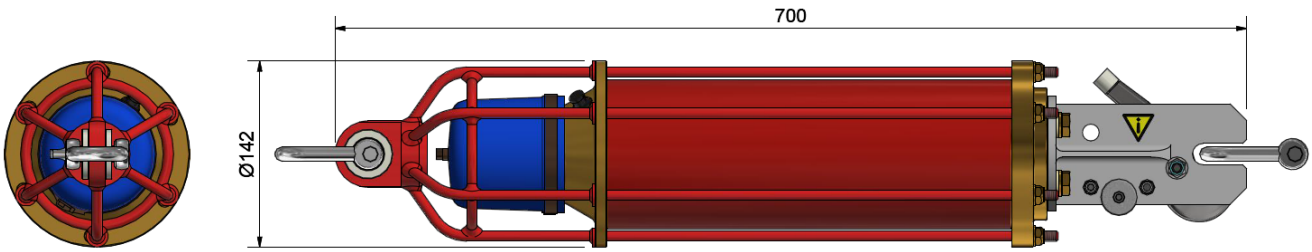
Specifications

Release Transponder 6 (RT 6–6000)



Feature	Type 8321-6415
Depth Rating	6,000 metres
Operating Frequency	Sonardyne LMF band (14–19 kHz)
Transducer Beam shape	Hemispherical
Transmit Source Level (dB re 1 µPa @1 m)	188 dB
Tone Equivalent Energy (TEE)*	192 dB
Receive Threshold (dB re 1 µPa)	<90 dB
Working Load Limit (4:1)	1,275 kg
Proof Load	2,550 kg
Breaking Load	5,100 kg
Maximum Safe Release Load	1,700 kg
Battery Life (Alkaline)	4 years active
Surface Unit	Sonardyne 6G Transceiver
Inclinometer Accuracy	±5°
Mechanical Construction	Aluminium bronze, duplex stainless steel
Operating Temperature	-5 to 40°C
Storage Temperature	-20 to 55°C
Dimensions (Length x Diameter)	700 x 142 mm (27.5 x 5.6")
Weight in Air/Water**	20/15 kg
Options	Parallel Release Kit Heavy Duty Release Frame
Standards	Temperature – DNV 2.4 Location Class D Vibration – DNV 2.4 Location Class B CE Marked to EN-60945, EN-61010

*TEE – WBv2 signals are 2x the duration of Sonardyne tone signals, therefore the TEE figure is to give the user an idea of the operational performance when comparing Wideband and Tone systems.

**Estimated Weights.