Datasheet

Release Transponder 6 Heavy Duty (RT 6-HD)

The Type 8322 Release Transponder 6 Heavy Duty (RT 6-HD) is a tough, reliable acoustic release with a Working Load Limit (WLL) of 2,500 kg, designed for deployment in up to 7,000 m of water and is fully compatible with Sonardyne's 6G® transceivers and USBL systems.

RT 6-HD integrates the functionality of a Sonardyne Wideband®2 compatible navigation transponder coupled with an integrated heavy duty release mechanism.

RT 6-HD can be configured and released with Sonardyne's intuitive IP67 Deck Topside with remote dunking transducer.

RT 6-HD can also be tracked and released using both MF and LMF Ranger 2 6G USBL systems. When used with a USBL system, the release is configured with an iWand 6G portable handheld acoustic transponder test and configuration device.

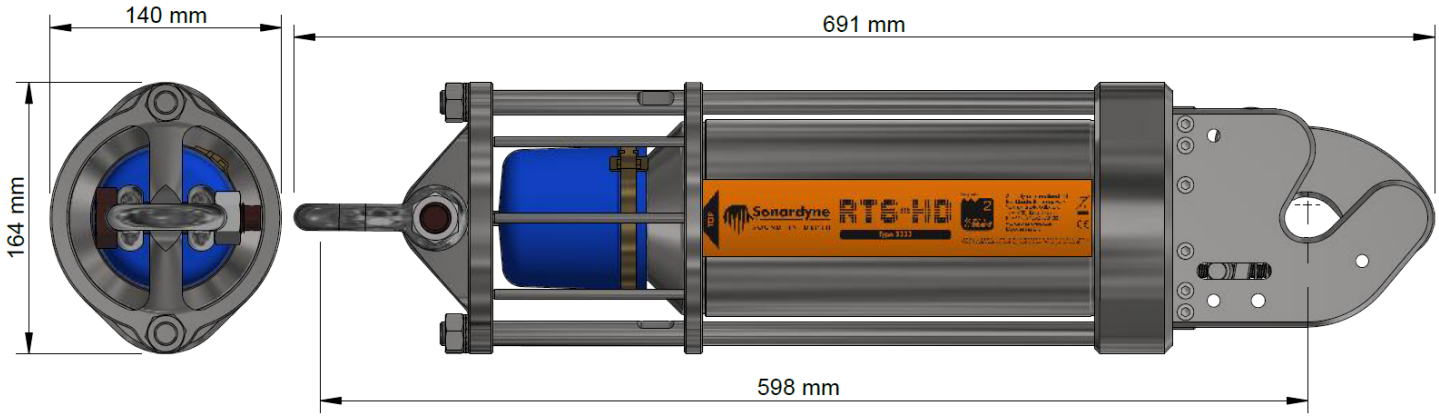
Excellent corrosion resistance is achieved by using super duplex stainless steel.

Key features

- WLL 2,500 kg (4:1)
- Breaking Load >10,000 kg
- 7,000 m depth rated
- LMF frequency band utilising Sonardyne Wideband 2 ranging and telemetry protocols
- >2.5 years deployment
- Intuitive operation through Deck Topside, paired with an LMF dunking transducer as a Deep Water Deck Kit
- Generate reports and monitor status with Deck Topside
- Track and release with Ranger 2 USBL systems
- Excellent corrosion resistance – Super duplex stainless steel
- Reduced mutual interference to further improve simultaneous operations
- Uses Sonardyne Wideband 2 acoustic addresses
- Highly reliable release mechanism
- Omni-directional transducer
- Integrated inclinometer (±5° accuracy)
- Battery status reporting

Specifications

Release Transponder 6 Heavy Duty (RT 6-HD)



Feature	Type 8322
Depth rating	7,000 m
Operating frequency	LMF (14–19 kHz)
Transducer beam shape	Hemispherical
Transmit source level (dB re 1 µPa @ 1 m)	188 dB
Tone equivalent energy (TEE)[1]	192 dB
Receive threshold (dB re 1 µPa)	<90 dB
Working load limit (4:1)	2,500 kg
Proof load	5,000 kg
Breaking load	10,000 kg
Battery life (alkaline)	>32 months
Inclinometer accuracy	±5°
Surface unit	Deck Topside, Ranger 2 USBL
Mechanical construction	Super duplex stainless steel
Operating temperature	-5 to 40°C
Storage temperature	-20 to 55°C
Dimensions (length x diameter)	691 x 164 mm
Weight in air/water[2]	24.5/20 kg
Options	**Part number**
Deep Water Deck Kit (Deck Topside)	602-0180

[1] 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.
[2] Estimated Weights.