

ACOUSTIC RELEASE

RT 6-1000 release transponder

Release Transponder 6 · Type 8327 · depth rated to 1,000 m

The Release Transponder 6 (**RT 6-1000**) is designed for use in continental shelf waters, to depths of 1,000 m, using Sonardyne's Wideband®2 acoustic ranging and telemetry protocol.

With both receive and transmit functions, it enables accurate slant ranges and positions to be determined, and release actuation to be confirmed, with a working load limit (WLL) of 150 kg.

It can be controlled with Deck Topside, Ranger 2 or the RT6 Android™ app. The intuitive IP67 Deck Topside, used with a dunking transducer and NFC reader, configures, releases, geo-references and reports on the RT 6-1000. It can also be tracked and released by all MF-band Ranger 2 6G USBL systems; with a USBL system, the release is configured with the RT6 app, which can also be used with an RT 6-1000 in topside control mode to release another subsea RT 6-1000.

The NFC link can put the RT 6-1000 into storage mode when not in use, significantly increasing overall battery endurance. A 'screw-off' release mechanism ensures a positive release action that overcomes any biological growth, and all external parts are made of high-strength plastics with excellent corrosion resistance.

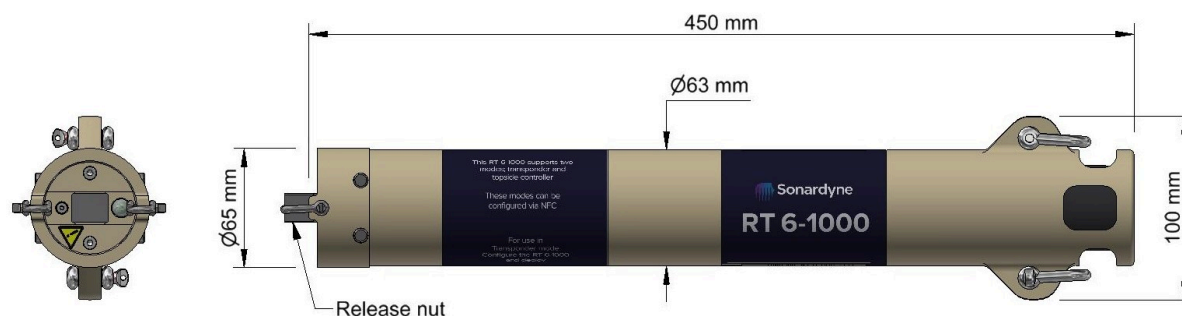


KEY FEATURES

- MF frequency band with Sonardyne Wideband 2 ranging and telemetry protocols
- Intuitive operation through Deck Topside, paired with an MF dunking transducer as a shallow-water deck kit
- Reports and status monitoring with Deck Topside
- Track and release with Sonardyne MF Ranger 2 USBL systems
- NFC Android™ app to test, configure, geo-reference and release
- Uses Sonardyne Wideband 2 acoustic addresses
- Working load limit of 150 kg
- Depth rated to 1,000 m
- > 13 months deployment with alkaline battery pack
- Integrated inclinometer
- Storage mode eliminates power consumption when not in use
- Reliable 'screw-off' release
- Rugged, compact design

RT 6-1000 RELEASE TRANSPONDER

Specifications



RT 6-1000 shown with optional shackles attached

PERFORMANCE (TYPE 8327)

Depth rating	1,000 m
Operating frequency	MF 20–34 kHz
Transducer beam shape	Hemispherical
Transmit source level	187 dB re 1 μ Pa @ 1 m
Tone equivalent energy (TEE)¹	193 dB
Receive threshold	< 100 dB re 1 μ Pa
Working load limit (4:1)	150 kg
Proof load²	300 kg
Breaking load	600 kg
Max safe release load	150 kg
Battery life (alkaline)	> 13 months
Inclinometer accuracy	$\pm 5^\circ$

GENERAL

Surface unit	Deck Topside, Ranger 2 USBL, RT 6 Android™ app
Construction	Anodised aluminium alloy, plastic and super duplex stainless steel
Operating temperature	–5 to 40 °C
Storage temperature	–20 to 55 °C
Max dimensions (L × Ø)	450 × 65 mm
Weight in air / water³	2.0 / 0.5 kg
Standards	CE marked to EN 60945, EN 61010

OPTIONS (PART NUMBER)

Shallow water deck kit (Deck Topside)	602-0175
Rope canister 70 m (250 kg WLL)	641-0673
Rope canister 120 m (250 kg WLL)	641-3265
Rope canister 160 m (125 kg WLL)	641-0080
Release nut*	830-0073
Shackle (bridle)	231-0140
Deployment rope (bridle)	231-0351

OPTIONAL ROPE CANISTER

Moor one end of the rope to an item on the seabed (tools, cables, salvage) and the other end to the RT 6-1000 via the canister. As the transponder ascends, high-strength rope is deployed; the line is then used to pull up the item directly or retrieve heavier tag lines.

* 10 release nuts are supplied with each new RT 6-1000. ¹ WBv2+ signals are 4× the duration of Sonardyne tone signals (WBv1 and WBv2 are 2×); the TEE figure shows the operational performance when comparing wideband and tone systems. ² Sonardyne does not perform proof load testing of this product. ³ Estimated weights.
Specifications subject to change without notice (Sonardyne, 02/2026). Designed and manufactured by Sonardyne; contact EquipOcean for the configuration suited to your project.