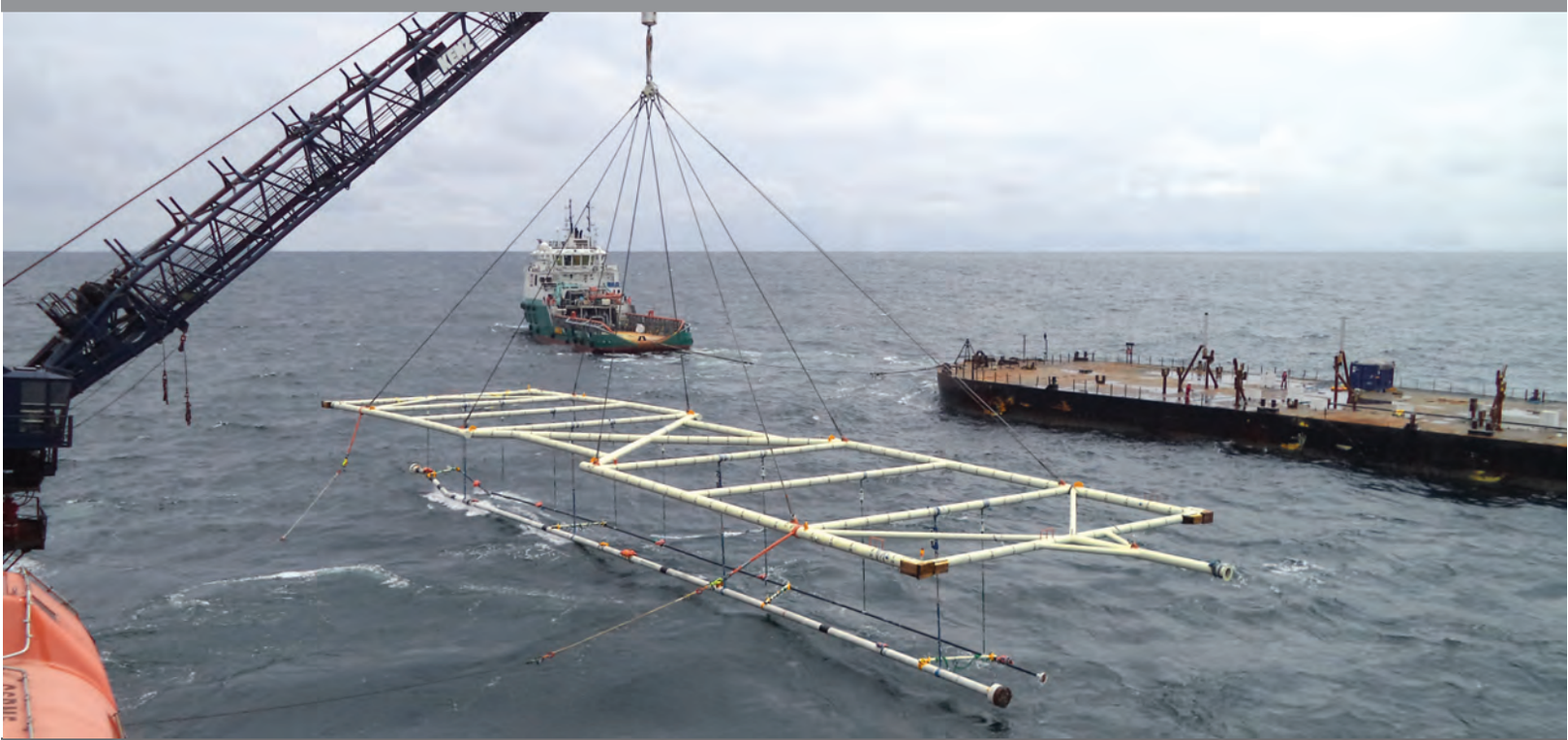
Sonardyne
SOUND IN DEPTH

HEAVY DUTY ACOUSTIC RELEASE TRANSPONDERS FOR CONSTRUCTION SURVEY



Recognised for their reliability, durability and deep operating range, Sonardyne acoustic release transponders are an important component in the inventory of commercial, scientific and naval organistations around the world who rely upon them to deploy and recover valuable seafloor sensors and equipment.

When used for offshore construction survey, Sonardyne acoustic releases provide a safe and efficient way to remotely control the release of structures such as manifolds, templates and pipelines that have been lowered onto the seabed on wires. Upon receipt of a securely encoded acoustic signal sent from the operator at the surface, the release mechanism of the transponder activates, allowing the installation crane wire to be automatically disconnected without ROV or diver intervention.

Sonardyne's extensive and versatile range of Heavy Duty Acoustic Release Transponders are offered at Working Load Limits perfectly suited for offshore construction survey operations.

At the heart of the product range is the Type 8320 Wideband Release Transponder 6 (WRT 6). This tough and ultra-reliable acoustic release has been specifically designed for structure installation operations and is fully compatible with Sonardyne's latest sixth generation (6G®) medium frequency acoustic positioning systems which are widely used to support all stages of a field development campaign. This means, for example, the WRT 6 can be both tracked and released using standard 6G USBL systems.

Standalone, the WRT 6 offers a Working Load Limit (WLL) of 1,275 kg (at 4:1). This can be increased to 7.5 tonnes, 15 tonnes or 25 tonnes by fitting the WRT 6 into one of the standard Heavy Duty Release Frames that are available. Higher WLL frames are available upon request.

The WRT 6 is derived from the same pedigree of low-power Wideband 2 enabled electronics used across Sonardyne's 6G USBL and LBL product ranges such as Compatt 6 and WSM 6+. Mechanically, the WRT 6 is based on the same design as the highly reliable Type 7409 Oceanographic Release Transponder (ORT) and features a reliable spring-assisted release mechanism, omni-directional transducer and built-in temperature and inclinometer sensors.

Key Features

- Working Load Limit 1,275 kg to 25 Tonnes (4:1)
- Breaking Load 5,100 kg to 100 Tonnes
- Highly reliable release mechanism
- Depth rated to 3,000 metres
- More than 500 unique addresses
- Compatible with all Sonardyne 6G transceivers
- Kongsberg HPR compatible; can be positioned using a HiPAP® system
- Fast and easy to set-up and operate
- Robust performance in shallow and reverberant environments found around structures
- Real-time diagnostics available on ranges to enable quality control
- Reduced mutual interference to further improve simultaneous operations
- External battery disconnect plug conserves battery life and simplifies storage and transportation
- Battery status reporting
- Integrated inclinometer and temperature sensors

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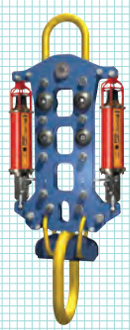
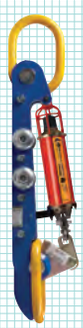
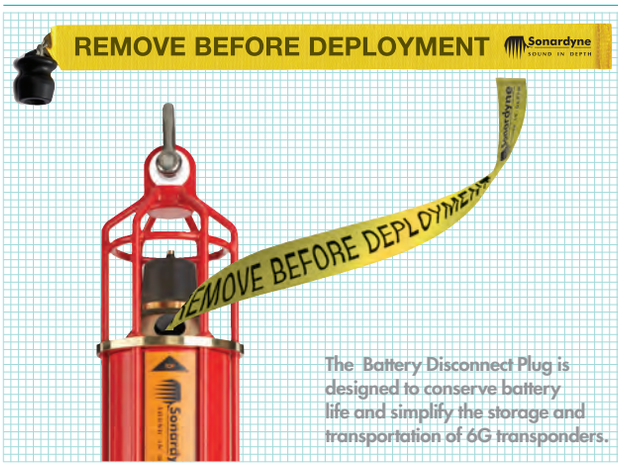
Heavy Duty Acoustic Release Transponders – Summary Specifications

	Type 8320 WRT 6 Acoustic Release Transponder	Type 7869-01 7.5 Tonne Heavy Duty Release Frame fitted with WRT 6	Type 7869-05 15 Tonne Heavy Duty Release Frame fitted with dual WRT 6s	Type 7988-01 25 Tonne Dual Heavy Duty Release Frame fitted with WRT 6
				
Working Load Limit (4:1)	1,275 kg	7.5 Tonnes	15 Tonnes	25 Tonnes
Proof Load	2,550 kg	15 Tonnes	30 Tonnes	50 Tonnes
Breaking Load	5,100 kg	30 Tonnes	60 Tonnes	100 Tonnes
Max Safe Release Load	1,700 kg	11 Tonnes	11 Tonnes	11 Tonnes
Release Redundancy	No	No	Yes	No
Depth Rating	3,000 metres	3,000 metres	3,000 metres	3,000 metres
Battery Life (Alkaline)	90 days active External On/Off switch	90 days active External On/Off switch	90 days active External On/Off switch	90 days active External On/Off switch
Mechanical Construction	Aluminium Bronze, Duplex Stainless Steel	Galvanised Steel, Powder coated	Galvanised Steel, Powder coated	Galvanised Steel, Powder coated
Size (Length x Diameter/ Width x Height)	700 mm x 142 mm	1190 mm* x 160 mm x 303 mm	1568 mm* x 270 mm x 670 mm	1465 mm* x 265 mm x 306 mm
Weight in Air/Weight including WRT 6**	22 kg	38 kg/60 kg	111 kg/155 kg	115 kg/137 kg
Frequency Band	Sonardyne MF band	Sonardyne MF band	Sonardyne MF band	Sonardyne MF band
Surface Command Unit	Any Sonardyne 6G transceiver	Any Sonardyne 6G transceiver	Any Sonardyne 6G transceiver	Any Sonardyne 6G transceiver
Design Standards (Type 8320-3411)	Temperature – DNV 2.4 Location Class D. Vibration – DNV 2.4 Location Class B. CE Marked to EN-60945, EN-61010			

* Includes lifting rings ** Estimated weights
Refer to separate datasheets for full specifications

Accessories

Battery Disconnect Plug (fitted as standard)



The Battery Disconnect Plug is designed to conserve battery life and simplify the storage and transportation of 6G transponders.

iWand Test and Configuration Device

iWand is a handheld, acoustic transponder test and configuration device. Use it with your 6G acoustic subsea hardware to set up transponders like never before – whether you're in the workshop getting ready for your next job or out on the back deck and just about to deploy.