



KONGSBERG

RPT Transponder

ROV Positioning Transponder (RPT) RPT 319 and 324

General description

The **Kongsberg Maritime RPT** transponders are a new design of medium frequency HPR Series compatible mini-transponder, for applications where a small and lightweight unit is required. The mini-transponder has all the features of the original Kongsberg Maritime MHT Transponder.

Features

- External channel selection
- 14 x HPR 300 channels and 56 x HPR 400 channels available
- Operator selectable source level to optimise battery life requirements
- Operator selectable sensitivity
- Increased battery life
- Faster battery charging
- Improved mechanical protection

The RPT 319/324 is available with a moulded protective plastic coating. Uncoated units are available as an option. All switches and connectors are recessed within the lower end cap for added protection. Compatible with all existing HPR 300 systems, this new model is also now compatible with the full range of channels available in the HPR 400 and HiPAP Series positioning systems. Expandability for the future addition of various sensors is built-in. The new design makes extensive use of surface mount technology. This allows all of the hardware to be confined to one board, thus increasing reliability and reducing spare part holding requirements.



Models available

RPT 319 or RPT 319/N

Model with $\pm 90^\circ$ beam pattern and lithium or rechargeable battery pack. Transponder and Responder operation. 1000 meters depth rating.

RPT 324 or RPT 324/N

Model with $\pm 45^\circ$ beam pattern and lithium or rechargeable battery pack. Transponder and Responder operation. 2000 meters depth rating.

Naming principles

The transponder name contains three letters followed by three digits, and the letters after the digits describes the options.

RPT ROV Positioning Transponder
 3xx..... 30 kHz band
 xDx..... (D) meter depth rated
 xx9..... ±90° beam width
 xx4..... ±45° beam width
 xxx/N..... Rechargeable battery

Maximum depth rating

RPT 319 1000 m
 RPT 324 2000 m

Source level (rel.1 mPa ref. 1m)

RPT 319 (±90° beam) 188 dB
 RPT 324 (±45° beam) 195 dB
 Source level can be reduced by 4 dB using an internal link.

Receiver sensitivity (rel.1µPa)

- RPT 319 110 dB
 - RPT 324 98 dB
 Sensitivity can be decreased by 10 dB using an internal link.

Transducer beam

- RPT 319 ±90°
 - RPT 324 ±45°

General

Hard anodised aluminium

Coating..... Polyurethane

Weight in air /water:

- RPT 319 2.3 kg / 1.0 kg
 - RPT 324 2.5 kg / 1.2 kg

External diameter 75 mm with coating

Overall length..... 328 mm

Channels..... All HPR Transponder channels
 excluding emergency "A" and "B"

Power supply options:

- Internal lithium battery
- Internal rechargeable battery
- External 23-30 Vdc

Battery life

Lithium battery

Quiescent..... 125 days
 Active (1 ping/second)..... 70 hours
 Number of replies 252.000

Rechargeable battery

Quiescent..... 37 days
 Active (1 ping/second)..... 20 hours
 Number of replies 72.000

Floating collar

Deep rating..... 2000 m
 Weight in air..... approx. 12 kg
 Nett buoyancy 5 kg
 Overall heigh with cage approx. 530 mm
 Diagonal diameter 275 mm
 Colour Orange



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