

The 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 Simrad MHT Transponder.

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.

FEATURES AND BENEFITS

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



TECHNICAL SPECIFICATION

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	$\pm 90^\circ$ beam width
xx4	$\pm 45^\circ$ 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 ($\pm 90^\circ$ beam)	188 dB
RPT 324 ($\pm 45^\circ$ beam)	195 dB

Source level can be reduced by 4 dB using an internal link.

Receiver Sensitivity (rel.1 μ Pa)

- RPT 319	110 dB
- RPT 324	98 dB

Sensitivity can be decreased by 10 dB using an internal link.

Transducer Beam

- RPT 319	$\pm 90^\circ$
- RPT 324	$\pm 45^\circ$

Power Supply Options:

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

General

Hard anodised aluminium	
Coating	Polyurethane
Weight in air:	
- RPT 319	2.3 kg
- RPT 324	2.5 kg
Weight in water:	
- RPT 319	1.0 kg
- RPT 324	1.2 kg
External diameter	75 mm with coating
Overall length	328 mm
Channels	All HPR Transponder channels excluding emergency "A" and "B"

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 height with cage	approx. 530 mm
Diagonal diameter	275 mm
Colour	Orange

Note: Dynamic Positioning Services reserve the right to amend this specification without prior notice.