

Mini SSBL Transponders

MST 319, MST 324 and MST 342

The Kongsberg Simrad Mini SSBL transponders are to be used with the Kongsberg Simrad underwater positioning and navigation systems; the HiPAP system and the HPR series for applications where a small and lightweight unit is required.

A MST transponder is similar in size to the original RPT transponder, and is available with a moulded protective plastic coating.



FEATURES AND BENEFITS

- External channel selection
- Channels for use with the:- HiPAP system and the HPR 400 series- HPR 300
- Operator selectable source level to optimise battery life requirements
- Operator selectable sensitivity
- Fast battery charging
- Both transponder and responder function
- Expendability for the future addition of various sensors is built-in

MST 319/N

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

MST 324/N

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

MST 342/N

- 4000 meters depth rating
- Transponder and Responder operation
- Model with $\pm 20^\circ$ beam pattern and rechargeable battery pack

TECHNICAL SPECIFICATION

Maximum depth rating

MST 319	1000 m
MST 324	2000 m
MST 342	4000 m

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

Pa MST 319	190 dB
MST 324	197 dB
MST 342	203 dB

Source level can be reduced by 3 dB using an internal link.

Receiver sensitivity (rel. 1 μ Pa) 100 dB

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

Transducer beam

MST 319	$\pm 90^\circ$
MST 324	$\pm 45^\circ$
MST 342	$\pm 20^\circ$

Housing material / coating

Hard anodised aluminium / Polyurethane.

Weight in air / water

MST 319	2.4 kg / 1 kg
MST 324	2.7 kg / 1.2 kg
MST 342	4.1 kg / 2.0 kg

External diameter

MST 319	76 mm
MST 324	76 mm
MST 342	approx. 82 mm

Overall length

MST 319	348 mm
MST 324	358 mm
MST 342	349 mm

MF channels (30 kHz band)

HiPAP / HPR 400	56 channels
HPR 300	14 channels

Power supply options

Internal rechargeable battery	NiMH
External	24 Vdc nominal
[22-26 Vdc)

Battery

Rechargeable battery NiMH.

Battery lifetime:

Quiescent [same for all MST models] 35 days

Number of replies (1 ping per sec):

MST 319	64 800
MST 324	64 800
MST 342	32 400

Connectors

Transponder connector type:

- Subcom MCBH5M (5 pin)

Pigtail connector type:

- Subcom MCIL5F (5 pin)

Floating collar

Deep rating	2000 m
Weight in air	approx. 12 kg
Netto buoyancy	approx 5 kg
Overall height with cage	530 mm
Diagonal diameter	275 mm

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