

RADIUS 800



KONGSBERG



FIXED POWER TRANSPONDER

The RADIUS 800 transponder is a part of the short-distance relative positioning system RADIUS, developed for use in applications where the need for a robust and highly accurate relative positioning system is crucial. The system comprises an interrogator, installed on a vessel, operating in the 5.5 GHz band and transponders which are deployed on the target. The RADIUS 800 has an operating range of up to 1000 metres, and is suitable for fixed installations on typically a platform, an FPSO or wind turbines.

Fixed power

The RADIUS 800 transponder is powered from a 5V DC power supply unit located at the same location as the transponder. A location no more than 10 metres from the transponder is recommended.

Unique ID

The transponders are coded with unique IDs ensuring reliable identification and tracking of vessels in demanding environments. Several interrogators can approach the same transponders, ensuring multi-user capabilities. Up to five transponders can be tracked simultaneously by the interrogator.



TECHNICAL SPECIFICATIONS

RADIUS 800

PERFORMANCE

Range

Operational range ¹	Up to 1000 m
DP range ²	Up to 550 m

Opening angle

Vertical/horizontal	± 50°/± 50°
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WEIGHTS AND DIMENSIONS

RADius 800 transponder

Transponder with connection box	564 x 562 x 214 mm
Weight without clamps	7.4 kg
Weight with clamps	9.1 kg

Connection box

Dimensions	123 x 91 x 120 mm
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Power Supply Unit

Dimensions	226 x 150 x 126 mm
Weight	3 kg

POWER SPECIFICATIONS

RADius 800 transponder

Input voltage	Input 5 V DC from Power Supply Unit
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Power Supply Unit

Input voltage	110 - 240 V AC
Output voltage	5 V DC

ENVIRONMENTAL SPECIFICATIONS

Transponder and Power Supply Unit

Operating humidity	20 - 100 % RH
Storage humidity	20 - 70 % RH (recommended)

Ingress protection transponder electronic unit

IP 66

Ingress protection connection box

IP 66

Ingress protection Power Supply Unit

IP 66

Operating temperature range

-20 °C - +60 °C

Storage temperature range

+5 °C - +40 °C

(recommended)

Regulatory

Compliance to Radio

Equipment Directive (RED)

2014/53/EU

¹ Possible to acquire the signal, typically range only in order to verify that your reference system is available. At a certain range, the system will track both range and bearing with a large probability. However, the bearing will have limited accuracy.

² The system will be fully operational both in range and bearing.

Specifications subject to change without any further notice.

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