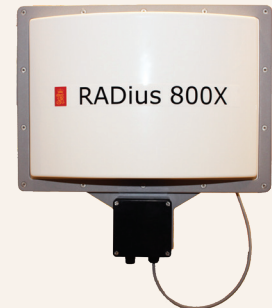


RADius 800X



KONGSBERG



Ex certified fixed power transponder

The RADius 800X transponder is a part of the short-distance relative positioning system RADius. It is developed for use in applications where the need for a robust and highly accurate relative positioning system is crucial. The RADius 800X transponder is suitable for fixed installations, typically on a platform or an FPSO.


Transponder main parts

The main parts of the RADius 800X transponder equipment are:

- The transponder panel and the transponder connection box with terminals for the DC voltage cable and a DIP switch for setting the Transponder Identification code (TID).
- The transponder mounting bracket for horizontal or vertical rail mounting.
- The Power and Barrier Cabinet, which is mounted in a safe area. The Power and Barrier Cabinet can supply up to four transponders.

ATEX certification

ATEX category 2 G product, gas group II B, temperature class T4, specified ambient temperature rating -20 °C to +60 °C.

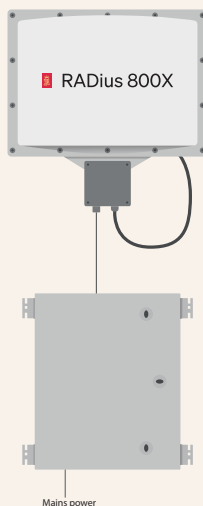
Product marking:  II 2 G Ex ib IIB T4 Gb -20 °C ≤ Ta ≤ +60 °C.

Unique identification

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.

FEATURES

- ATEX certified
- Fixed power
- Long-range
- No moving parts
- All-weather operation
- RADius 1000/2000 system compatible
- High radar cross section



Technical specifications

RADius 800X

Performance

Range

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

Opening angle

Vertical	±50°
Horizontal	±50°

Transponder identification (TID)

Range	212 - 298
-------	-----------

Power specifications

RADius 800X transponder

Input voltage, nominal	5 VDC (dependent on cable length)
Current, nominal	70 mA

Power and Barrier Cabinet

Input voltage	100 - 240 VAC, 50 - 60 Hz (from vessel power supply)
Output voltage	5 VDC

Weights and dimensions

RADius 800X transponder

Transponder	562 × 569 × 214 mm
Weight without bracket	7.4 kg
Weight with bracket	9.1 kg

Power and Barrier Cabinet

Dimensions	382 × 458 × 210 mm
Weight	15 kg

Environmental specifications

RADius 800X transponder

Operating temperature	-20 - +60 °C
Storage temperature	+5 - +40 °C (recommended)
Operating humidity	20 - 100 % RH
Storage humidity	20 - 70 % RH
Ingress protection	IP66

Power and Barrier Cabinet

Operating temperature	-20 - +55 °C
Ingress protection cable gland	IP66

Standards and regulations

Compliance to Radio Equipment Directive (RED)	2014/53/EU
Environmental	IEC/EN 60945

Ex certificates

ATEX certificate	Presafe 19 ATEX 14991X
------------------	------------------------

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.