RADIUS 600X





ATEX CERTIFIED FIXED POWER TRANSPONDER

The RADius 600X 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. RADius 600X is suitable for large installations like offshore platforms, FPSOs and similar where DP operated vessels typically will approach the installation.

EX certified

The RADius 600X high gain transponder is an intrinsically ATEX safe product (category 2) suitable to be installed in hazardous locations where there may be an explosive mixture of flammable gases belonging to gas groups IIB and/or IIA. The transponder can be used in hazardous zones 1 and 2. Temperature class is T4.

Fixed power

The RADius 600X is powered from a power supply located in a safe (non-hazardous) location and an EX type approved zener barrier is used to limit the delivered energy to the hazardous location to a safe level. The barrier - located in a safe area - will prevent any hazardous voltage or excessive current from reaching the hazardous zone. For long cable runs an alternative approved power solution can be delivered. Contact Kongsberg Seatex for more information.

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 600X

PERFORMANCE

ENVIRONMENTAL SPECIFICATIONS

Range Operational range ¹ DP range ²	Up to 1000 m > 550 m	RADius 600X transponder Operating humidity Storage humidity	20 to 100 % RH 20 to 70 % RH (recommended)
Opening angle Vertical/horizontal	± 45°/± 45°	Ingress protection transponder Ingress protection connection box	
WEIGHTS AND DIMENSIONS		Operating temperature range Storage temperature range	-25 °C to +60 °C +5 °C to +40 °C (recommended)
RADius 600X transponder Transponder with connection box Weight without clamps Weight with clamps Transponder power supply Dimensions Weight	220 x 400 x 147 mm 3.3 kg 3.5 kg 126 x 226 x 90 mm 2.5 kg	Transponder power supply Enclosure material Enclosure protection Operating temperature range Operating humidity (max.) Storage temperature range Storage humidity (max.)	Aluminium IP 66 -15 °C to +55 °C 95 % -25 °C to +70 °C 60 %
Zener barrier Dimensions Weight POWER SPECIFICATIONS RADius 600X transponder	12.5 x 110 x 115 mm O.2 kg	Zener barrier Operating humidity Storage humidity Ingress protection Operational temperature range Storage temperature range	10 to 95 % RH 20 to 70 % RH IP 20 -20 °C to +60 °C +5 °C to +40 °C (recommended)
Current power consumption Input voltage	100 to 130 mA 4 to 4.5 V DC	Regulatory Compliant to Radio Equipment Directive (RED)	2014/53/EU
Transponder power supply Input voltage Output voltage	90 to 250 V AC 6 V DC	ATEX certificate EU type examination certificate no	. PRESAFE 17 ATEX

10742X

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.

2.5 A (max.)

 $^{\rm 2}$ $\,$ The system will be fully operational both in range and bearing.

Specifications subject to change without any further notice.

KONGSBERG SEATEX

Output current

Switchboard: +47 73 54 55 00 Global support 24/7: +47 33 03 24 07 E-mail sales: km.seatex.sales@km.kongsberg.com E-mail support: km.support.seatex@kongsberg.com

