

RADius Ex battery



KONGSBERG



RADius replacement battery for Ex transponders

The RADius replacement battery pack for RADius 550X and RADius 700X transponders consists of a primary cell and a series resistor and is non-rechargeable. The battery pack is intrinsically safe. The cell with its infallible resistor is completely moulded inside a stainless steel container. For use and instructions of the battery pack, refer to the RADius 550X and RADius 700X Instruction Manuals.

Technical specifications

Battery build-up

Supplier model number	Xeno Energy XL205F/T1
Chemistry	Thionylchloride lithium battery
Primary D cell	IEC R20
Lithium metal content	4.8 g

Electrical specifications

No load voltage	Max 3.67 V, (3.9 V IEC 60079-0)
Infallible integrated current limiting resistor	390 R
Output current	Max 10.1 mA
Available power from pack	Max 39.4 mW
Capacity	19 Ah

The battery is non-rechargeable.

Weights and dimensions

Total weight	0.34 kg
Cell weight	98 g
Battery pack	108 × 57 × 48 mm (incl. mounting tabs)

Environmental specifications

Operating temperature	-25 - +60 °C
Ingress protection	IP66
Humidity	99% non-condensing

Drop tests

4 times onto a concrete floor from a 1-metre height in an ambient temperature of -30 °C

Storage time

Over 10 years at temperatures below +30 °C

Self discharge rate

1 - 2 % per year at room temperature

Storage short term

+5 - +40 °C

Storage long term

< +30 °C (recommended)

Mechanical specifications

Vibration	IEC 60945/EN 60945
Battery enclosure material	Stainless steel
Battery cell and resistor	Moulded inside metal container with 3M Scotch-Weld™ Epoxy Adhesives type DP190 Grey

Certificates

EC type examination	PRESAFE 17 ATEX 10742X
Certificate of conformity	IECEX PRE 17.0044X
INMETRO	DNV 13.0035 X

Transport regulations

The battery cell is subject to Class 9, UN 3090/3091 regulations. Due to complete encapsulation with casting compound, mechanical protection and energy limitation, these regulations may be waived.

Specifications subject to change without any further notice.