TAG BATTERY LIFE

KEY FEATURES:
- Operating Principle
- Life Time Factors
- Life Time Expectations

TRANSIT Operating Principle

The operating principle of the TRANSIT Long Range Identification System is based on modulated backscatter technology. The Tags are semi passive components and the battery is solely used to power the tag's internal circuit and not to broadcast waves to the reader. Therefore battery life is not affected by the number of times a tag is read.

Life Time Factors

Battery life depends on a variety of different parameters and circumstances.

Main external factors affecting battery life are ambient temperature and sun irradiation. Both strongly related to the geographical climatic zone.

Life Time Expectation

The specified battery life time expectation of the TRANSIT tags is a result of a comprehensive Battery Life Time Model involving all key factors e.g. capacity, tolerance, ambient temperature and sun irradiation. Statistically Battery life time is normally distributed and the specified life time corresponds to the -3 value (= standard deviation).

A conservative approach with a failure percentage - before the specified end of life - of less than 1,5% of the total population.

The low frequency inductive interface of our tags (for prox purposes) will remain operational beyond the battery life time.

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SPECIFICATIONS

Part number	Description	Expected battery life time (years)
9891900	Compact Tag	7
9882650	Window Button	10
9882480	Window Button Switch	10
9875980	Heavy Duty Tag	10
9948546	Prox-Booster 2G single ID	10
9948538	Prox-Booster 2G	10
9948554	Smartcard-Booster 2G	10
9895736	Prox-Booster Single ID	10
9892524	Prox-Booster Single ID Cardax	10
9895744	Prox-Booster	10
9892508	Prox-Booster Cardax	10
9895337	Smartcard-Booster	5
9896082	Smartcard-Booster Cardax	5

Climatic zone**

Polar, Moderate, Tropical and Continental conditions
*Extreme, especially dry hot Arid conditions might reduce battery life

Please consult your local partner for details
**According to Köppen Climate Classification

Effective date

Compact Tag for deliveries from 1-6-2011
Window Button from 1-9-2009
Heavy Duty Tag from 1-1-2009
Prox-Booster from 1-1-2009

Documentation