

# TECHNICAL BULLETIN TB04-2022

## BATTERY LIFETIME ON BATTERY POWERED GMDSS PRODUCTS



Jotron manufactures more than 30.000 EPIRB, SART and VHF battery packs (Lithium) every year. So, batteries are never old in Jotron Stock. The battery types we use have less than 3% self-discharge per year.

From introductions of new IMO MSC.471(101) compliant EPIRBs in 2022, we start a new way of labelling battery lifetime/service life or Shore Based Maintenance due dates on these EPIRBs, see table at the bottom of this page in Table 2 for the new products


Table 1. below show a list of shelf life and service life on our products developed before 2022

Definitions:

- Shelf life: The time the product may be in stock from manufacturing date until installed on a vessel.
- Service life: The maximum lifetime the product can be labeled to. (According to SOLAS req. of SBM)

Product		Shelf life (months)	Service life (years)	Total (years)
EPIRB	Tron 40S mkII/	30	5	7,5
	Tron 40GPS mkII	30	5	7,5
	Tron 60S / Tron 60GPS	24	5	7
	Tron 40VDR	30	5	7,5
SART	Tron SART	12	4	5
	Tron SART20	18	5	6,5
	Tron AIS-SART	18	5	6,5
VHF	Tron TR20 GMDSS	18	5	6,5
	Tron TR30 GMDSS	30	5	7,5
	Tron TR30 AIR	30	5	7,5

Table 1

 Products with grey background are obsolete products.

New IMO MSC.471(101) compliant EPIRBs:

Product		Battery expiry <sup>1</sup>	Service or SBM due date , maximum( years) <sup>2</sup>
EPIRB	Tron 60AIS	11 Years 3 Month	5
	Tron 40AIS	7 Years 6 Months	5
	Tron 40VDR-AIS	7 Years 6 Months	5

Table 2

<sup>1</sup> Battery expiry is calculated from battery's production date, useful time may be less than shown here due to transportation delays, and/or time in warehouse shelf.

<sup>2</sup> Shore Based Maintenance (SBM) due date shall be 4 or 5 years from installation (dependent of vessel flag), provided that this date is less than "Battery expiry" date

Jotron AS, 15<sup>th</sup> March 2022