

SMARTLOGGER® Patented

SMARTBATTERY / SMARTLOGGER – Pat. Batterie Überwachung & EU-BattG 2024 Passport



Patent: EP 18726032.8

Features

- ◆ Stores all battery data in accordance with the European battery passport BattG2024
- ◆ Available for 12V, from 2025 for other battery cell voltages of 1.2/2/4/6Volt and 48Volt
- ◆ "Fitness tracker" for batteries - detects weak batteries and monitors warranty violations
- ◆ Reliable long-term "black box" for batteries with up to 10 years of recording time with minimal power consumption, less than the natural self-discharge of a battery.
- ◆ Click'n'Play: Attach the SMARTLOGGER to your battery, initialize it with your cell phone via NFC and the "SMARTBATTERY COMPANION APP" and monitor the battery data from the "cradle to the grave"
- ◆ Ideal for retrofitting to comply with the European Battery Act BattG2024
- ◆ Near Field Communication (NFC) ensures compliance with data protection laws DSGVO and cybersecurity

The GENEREX SMARTLOGGER/SMARTBATTERY technology, patented in 2024, is a long-term battery monitoring solution that works in the background without measurably discharging the battery and is therefore ideal for long-term operation or integration into all types of batteries from the manufacturer. While the SMARTLOGGER is designed as a retrofittable solution for monitoring individual batteries or battery systems (emergency power supply, automotive solutions) on the day of commissioning or during a capacity test, the SMARTBATTERY variant integrated into the battery ex works can detect faulty batteries during production, transport, or storage. Both devices record measured values for the entire battery life and show whether there are any warranty or limit violations from production to disposal.

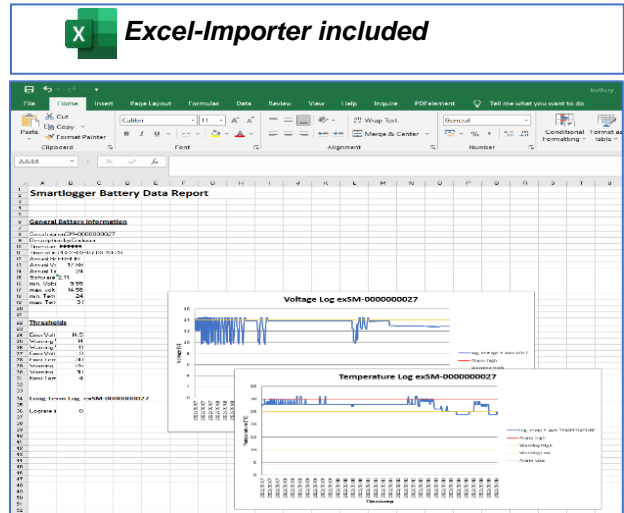


**Powerful export function of the long-term storage for battery analyzes by the user or battery service technician.**

Use the reliable and energy-saving NFC technology to read measurement data and automatically export it for analysis and prepare it as MS EXCEL graphics. This makes it easy to create an automated report for the user or manufacturer.

You need an Android device equipped with NFC (from 2025 also for Apple iOS with an external NFC reader) to carry out the following functions:

- ◆ View current battery status
- ◆ Capacity tests for performance measurement
- ◆ Long-term recording voltage and temperatures up to 10 years
- ◆ Number of battery cycles (discharges)
- ◆ Trend display for error predictions



**The SMARTLOGGER / SMARTBATTERY is the first battery monitoring device on the market that can do both: Data evaluation and long-term recording in accordance with the European Battery Act 2024.**

**Technical data: SMARTLOGGER / SMARTBATTERY of the 12-volt version**

Description	Measurement
Operating voltage range of the 12V version	5-24V
Reverse polarity protection/fuse against residual current	Yes
Operating temperature range	-40 – +75°C
Temperature measurement range	-25 – + 60°C
Accuracy of temperature measurement	+/- 1°C
Voltage measurement accuracy	+/- 0.3%
Onboard storage (long-term protocol 1h interval)	Up to 10 years
Onboard storage (short-term protocol 60, 10, 1 second interval)	Up to 24 Hours
Long term datalog interval	1 – 60 Minutes
Short term datalog interval	10 -60 seconds
Dimensions SMARTLOGGER housing (length * width * height)	71x43x15.5mm
Dimensions Integrated version for SMARTBATTERY (Length * Width * Height)	50x40x7mm
Data communication APP	SMARTLOGGER Companion NFC for Android (Apple iOS coming 2025)