



## FlexLog IBS

[www.star-cooperation.com](http://www.star-cooperation.com)

### BENEFITS

- Long-term recording of data from an Intelligent Battery Sensor (IBS)
- Collection of current and voltage values and calculation of charge and discharge balance
- LIN interface for connecting the IBS
- Configurable recording intervals
- Low power consumption, display can be deactivated

### DATA LOGGER FOR INTELLIGENT BATTERY SENSORS IBS

The data logger FlexLog IBS is a handy display and recording device for current and voltage values in motor vehicles using a battery sensor IBS.

The device can be used in vehicles of different series, for example, to detect quiescent current problems in production environments. The integration into the vehicle is very fast and easy. Measured values such as current and voltage are acquired from a connected, standard battery sensor and continuously recorded. The recording rate can be configured by the user, so that even a theoretical long-term collection over several years is possible. The measured values are also used to calculate a charge and discharge balance, which, if the initial situation is known, allows conclusions to be drawn about the state of charge of the battery.

All measured values and settings are shown on an integrated display (or optional separate display module with suction cup for

the windshield). All settings can be made directly on the device using the membrane keyboard. The display can be switched off to reduce the power consumption.

The FlexLog IBS is usually powered from the vehicle battery, but a separate measurement technology supply is also possible. An Intelligent Battery Sensor (IBS) is used as sensor for data collection and is (additionally) installed in the circuit on the negative pole of the battery.

The data recording starts immediately after applying the supply voltage and can be restarted manually. For each day (change at 0:00 o'clock) a new file is created on the internal memory to simplify the data analysis.

The recorded data can be retrieved from any PC via a mini-USB interface similar to a USB stick. Separate software or special USB drivers are not required.

# FlexLog IBS

## APPLICATION

- Detection and collection of quiescent current problems during vehicle field analysis or rework
- General current and voltage measurement in a 12 V vehicle electrical system using the Intelligent Battery Sensor (IBS)
- Current and voltage measurement for a vehicle auxiliary battery for e.g. a secondary vehicle electrical system

## SCOPE OF DELIVERY

- FlexLog IBS
- Power supply cable 12V
- Manual

## ACCESSORIES

- Intelligent Battery Sensor IBS
- Connection cable set sensor

## TECHNICAL DATA

Description	Value
Supply voltage	6 - 28 Vdc / Max. 1 W (approx. 35 mA at 13.5 V and display deactivated)
Housing	Aluminum housing with rubber seal
Dimensions	135 x 78 x 36 mm
Protection class	IP54 (all connectors plugged in)
Ambient temperature	-30°C to +80°C (push button operation 0°C to 45°C)
Interfaces	1x LIN-Bus (communication with typical IBS) 1x mini USB 2.0 1x CAN-Bus (on request)
Sensor	Commercially available IBS with LIN interface for 12 V vehicle electric system (current measuring range quiescent current to start current, bidirectional)
Display	OLED 4 rows
In- and outputs	1x analog input (on request for additional functions) 2x digital inputs or outputs (on request for additional functions)
Sensor supply	Direct supply voltage device
Additional features	Measurement of supply voltage and internal current consumption (on request)
Memory	Internal 16 GB Micro-SD card
Logging-Intervall	20 ms up to 1 h (charge balance determined every 20 ms)
Battery for RTC	BR2032 internal