

Electronic battery sensor

Key component for electrical energy management in passenger cars and light commercial vehicles

Provides reliable and precise information on the status of 12V lead-acid batteries while taking battery aging effects into account



- ▶ Scalable and programmable data output based on customer needs
- ▶ Advanced diagnostic functions during manufacture, transport and operation
- ▶ Supports safety-relevant functions like automated driving (ASIL-B conformity)
- ▶ Fuel savings thanks to the support of technologies such as smart generator control, start/stop and recuperation

high measurement accuracy

for voltage, current and temperature

integrated battery state detection

The algorithm delivers precise, reliable information on the current and predicted battery state.

flexible design

for integration into various installation spaces



TECHNICAL CHARACTERISTICS

Current	1mA to 1A 1A to 1600A	typ. $\pm 0.5\%$, max. $\pm 1\%$ $\pm 1\%$
Voltage	6V to 19V	typ. $\pm 0.1\%$ max. $\pm 0.26\%$
Temperature	-40°C to 115°C	$\pm 3^\circ\text{C}$
Current consumption	typ. 10.5mA sleep mode: max. 100 μA	
Communication interface	LIN 2.2 (LIN 1.3 compatible)	
Connector	2-pin AMP/Hirschmann	
Battery minus pole	DIN, SAE or JIS	
Safety level	ASIL-B	
Protection class	IP6K9K	