

MAHA INNOVATION CENTER

PIONEERING SOLUTIONS FOR THE MEASUREMENT
AND TESTING TECHNOLOGY OF TOMORROW.

STILL IN
DEVELOPMENT
PILOT CUSTOM-
ERS WANTED



BATTERYMONITOR

OUT OF THE CAR. NOT OUT OF SIGHT.

made by MAHA
 made
in
Germany



WE SEE WHAT'S HEATING UP.

In the vehicle, the **integrated thermal management system** monitors the lithium traction battery **continuous-ly**. The temperature, cell state and all the safety related parameters are constantly tracked. But as soon as the battery is removed – for repair, diagnostics, interim storage or return transport – that vehicle-side monitoring disappears. This is precisely where BatteryMonitor comes into play.

BatteryMonitor monitors the state of removed lithium traction batteries, creating an extra layer of safety – in the workshop, in storage and in logistics. It detects thermal changes at an early stage and makes visible what would otherwise remain hidden without measurement. A mechanically or thermally pre-damaged cell heats up slowly even at rest – often long before any risk is visible from the outside.

Businesses keep their batteries' storage condition continuously under control – no need for any extra effort or specialist knowledge. The unit runs automatically as soon as the battery is stationary, providing **safety, creating transparency and issuing early warnings of potential hazards.**

One key point: As long as the battery is on your premises, you are responsible for its state – responsibility no longer lies with the vehicle manufacturer. That's exactly why it's worth adding a simple extra safeguard – before a risk turns into a loss.

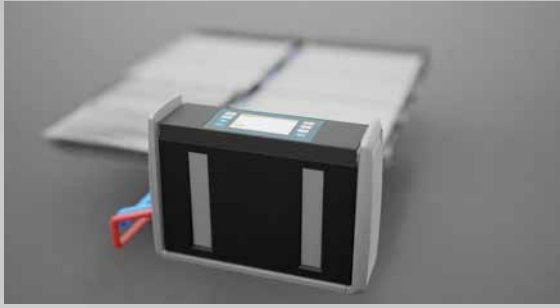
WHAT THAT MEANS:

- **Risk without feedback:** The battery state stays invisible unless it is measured.
- **Your responsibility:** Once the battery is on your premises, you are responsible for it – responsibility no longer lies with the vehicle manufacturer.
- **Insurance and evidence:** In the event of a claim, a continuous temperature log makes the difference between goodwill and recourse.



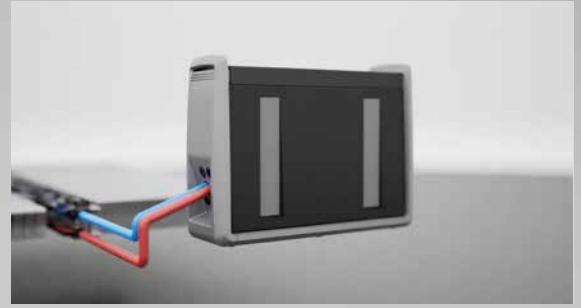
MAHA INNOVATION CENTER

BATTERYMONITOR – OUT OF THE CAR. NOT OUT OF SIGHT.



Continuous measurement

The sensor records the temperature continuously. You set the limits.



Heat circulation

A closed liquid circuit distributes heat evenly across the cells – so no hotspots form, even when the battery is simply stationary.

TEMPERATURE MONITORING.

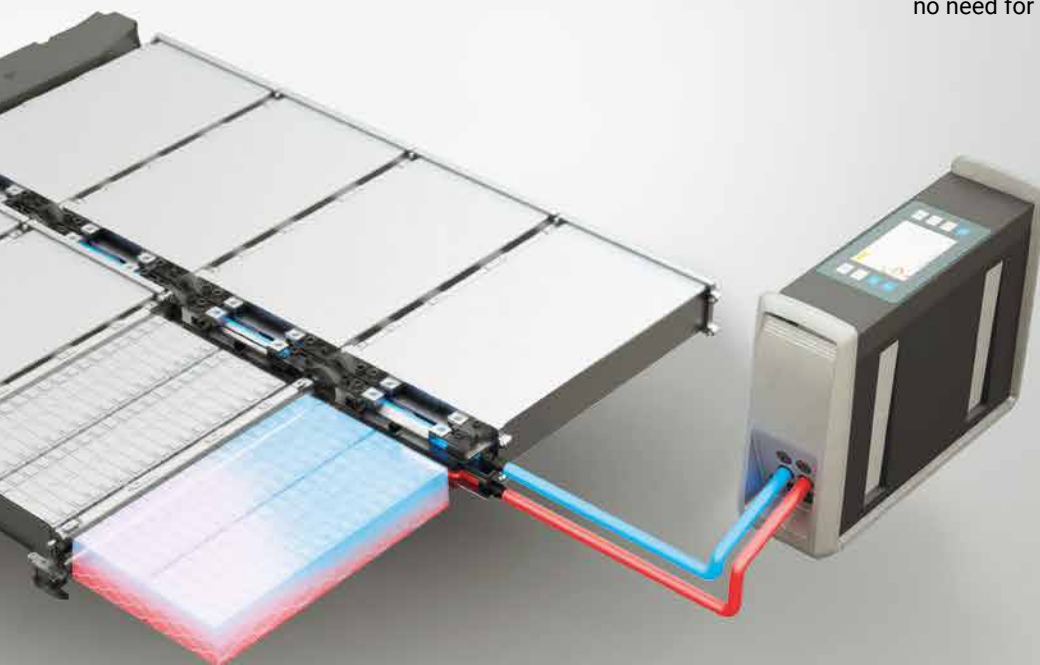
The pump, heat exchanger and expansion tank dissipate the heat if a hotspot occurs. So the system isn't just observing – it's stabilising.

TWO-STAGE ALERTING.

Stage one: A signal on the unit for anyone present.
Stage two: An alert over Wi-Fi or GSM – even when nobody is on site.

MOBILE OR STATIONARY.

Mains-powered and portable. In the workshop, in interim storage and during accompanied transport – no need for reconfiguration.



WHAT BATTERYMONITOR CAN DO.

TEMPERATURE MONITORING.

A closed liquid circuit continuously dissipates temperature increases. The risk of hotspots caused by a stationary battery is minimised.

CONTINUOUS MEASUREMENT.

The sensor measures the coolant temperature continuously. You set the limits yourself.

TWO-STAGE ALERTING.

Stage one issues a warning directly on the unit. Stage two reports over Wi-Fi or GSM – even after hours.

MOBILE & STATIONARY.

Runs on mains power; portable. Workshop, interim storage, accompanied transport – no need for reconfiguration.

COMPLETE DOCUMENTATION.

The unit automatically logs the temperature curve – as evidence for insurance, stock intake and damage claims.

AREA OF USE.

Wherever batteries are at rest: workshops offering EV servicing, interim storage, accompanied replacement battery transport.

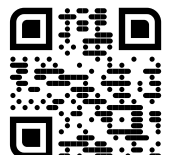
TIMING

2026
PILOT PHASE ONGOING

2031
MARKET MATURITY



MAHA SE & Co. KG
Hoyen 20
87490 Haldenwang
Germany



maha.de