

# BATTERY COOLANT LIQUID Sensor

## For immersion cooling of EV batteries

Degradation of liquids used for immersion cooling of high-performance batteries can be particularly critical to the **safety of electric vehicles**. Early detection of deterioration is therefore crucial for timely exchange of the coolant. **AST's BCF-Sensor** measures multiple material properties such as **insulation resistance and relative dielectric constant** of the liquid. This comprehensive analysis provides qualified information for the **optimum time of preventive maintenance**. The sensor fulfils the requirements of ASIL-B classification.



### Technical data (preliminary)

Measuring range water content	0-1500 ppm
Measuring accuracy water content	± 30 ppm
Temperature range	-40°C – 85°C
Medium to be measured	Exxon 702 (otheres possible)
Response Time (10%-90%)	<20 sec
Connector	MQS 4-Pin

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