

Fast Facts

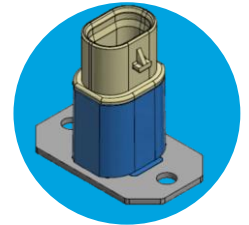
Temperature Monitoring

Different sensors series / customized for future applications

Battery System

Busbar Temperature

- Based on customers design specification we have created optimized packaging design agreed fixation points and minimal application space lead to a very special sensor look
- Always in our focus: fast response on temperature changes and handling of very high electrical power
- We choose materials in order to provide high temperature resistance (up to 200 °C) and good insulation



Fuel Cell Stack

Cathode Temperature

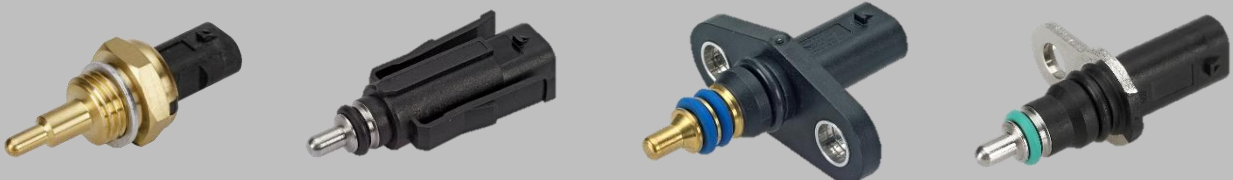
- Based on our long term experience in fuel cell application (coolant system) we have adapted high volume design to withstand H2 conditions
- High volume production stands for reasonable costs
- Individual solution (stray current stability)
- Best in class thermal decoupling leads to extremely fast response and top system tolerances



E-Motor

Stator Temperature

- Temperature sensor is specially characterized by sensor tip which was designed for fast response in solid bodies (e.g. electric motor housing)
- Fixed on mating side with e.g. flanges in different shape it can be adapted to many different applications
- Due to using plastic body instead of too much metal system tolerances are optimized



Fast Facts

Temperature Monitoring

Different sensors series / customized for future applications

Power Module

Connector Temperature

- Special electric power conditions lead to special adapting of temperature measurement
- As temperature changes on high power pins could become critical temperature monitoring up to high temperature range of 150 °C becomes essential
- For better integration into customer systems design is mainly determined by customers requirements
- Electrically insulated up to 4,8 kV



Cooling

Redundant Measurement

- For temperature monitoring, we rely on a proven technology that, optimized for even better performance, is characterized by an exceptionally long service life
- The sensor is designed as a 100 % redundant system for self-diagnostic capability and thus offers optimum safety
- With this 100 % redundancy that temperature sensor can be used in systems following functional safety rules.



Contact for further information:

KYOCERA AVX Components (Dresden) GmbH
 Christopher Hübner
 Product Line Director Temperature Sensors
 Christopher.huebner@kyocera-avx.com

