CUSTOMIZED SENSOR SOLUTIONS FOR YOUR APPLICATION

Benefit from an agile co-creation of a sensor with IST AG and enable your business to focus on your core competence: From simple adaptions of our sensors to fit your application's needs to new development of a tailor-made sensor – from early prototyping to series manufacturing.

INSTALLATION

- Tensile strength
- Shear test
- Optical microscope
- Measuring projector
- X-ray

ENVIRONMENT

 High voltage test • Helium leakage test

MEASURING

Long-term stability

METHOD

Accuracy

 Ceramic Polymer Screw

Isolation test

ESD

TEST POSSIBILITIES

PACKAGING

- Plastic bag
- Blisters
- Chip tray
- Customer specific
- Tape&Reel

WIRE END

- Stripped
- With plug
- Tinned



SENSOR ELEMENT

- Resistance
- Size

- Characteristic Curve

CONNECTOR

- Wire
- Stranded wire
- Diameter
- Length

- Stainless steel
- Drift

HOUSING

- No housing



physical. chemical. biological.



FUEL CELLS

Sensors for electric battery modules, compressed gaseous hydrogen and for coolant monitoring



- Insulation/blank

CONNECTION **TECNOLOGY**

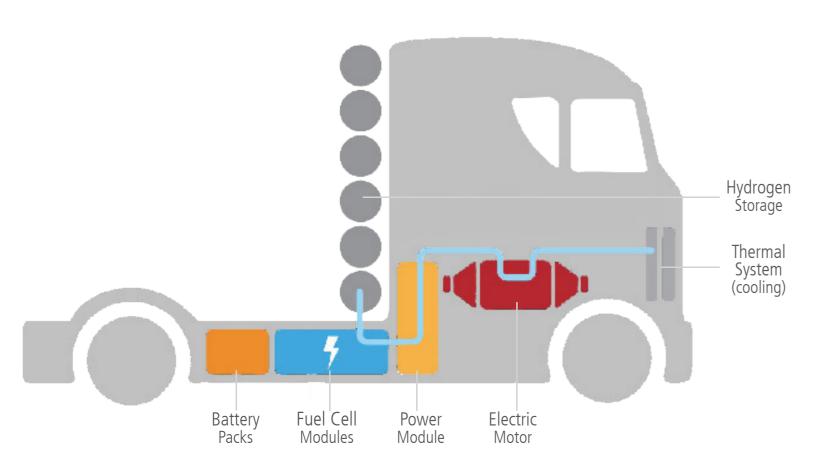
- Directly welded
- Laser extension
- Spot welding
- Soft soldering
- Brazing

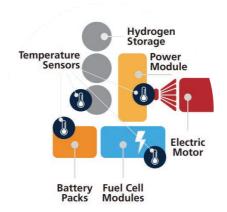


FUEL CELLS HUMIDITY AND TEMPERATURE MANAGEMENT

When moisture and temperature are properly controlled with quality sensors, efficiency is increased, while potential loss of the cell is prevented.

Our proprietary polymer technology guarantees high precision measuring of the RH at high values above 85%. The high humidity stability of our sensors, enables regulation of inlet air into the fuel cell membranes to controll humidity.

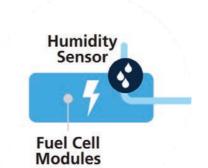




TEMPERATURE SENSORS

Precision platinum thin-fim sensors are ideal for the temperature monitoring of the coolant liquid in a low-temperature fuel cell.

- Fuel Cell Stack
- Electric Traction Motor Fuel Storage
- DC/DC Converter
- Battery Pack
- Fuel Filler
- Transmission
- Power Electric Controller

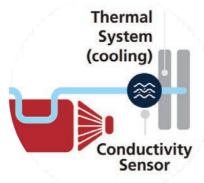


HUMIDITY SENSORS

A leak detection humidity sensor can detect coolant leakage or water ingress via a change moisture contenct.

- Humidity Cell Stack
- Humidifier





CONDUCTIVITY SENSORS

Continuous conductivity measurement enables fast and reliable monitoring of the quality of the fuel cell cooling system.

• Thermal System (cooling)

