

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 adaptations of our sensors to fit your application's needs to new development of a tailor-made sensor – from early prototyping to series manufacturing.

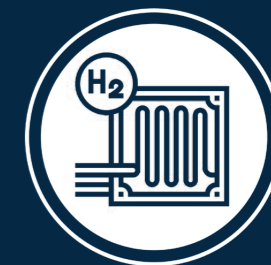
IST Innovative Sensor Technology
physical. chemical. biological.



FUEL CELLS

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

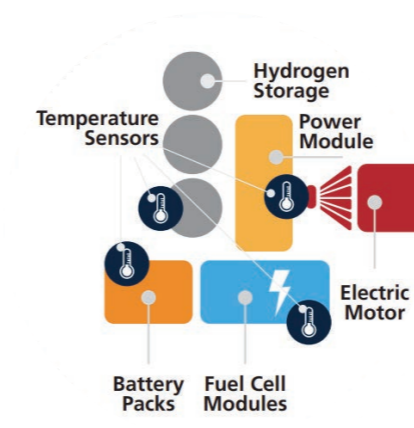
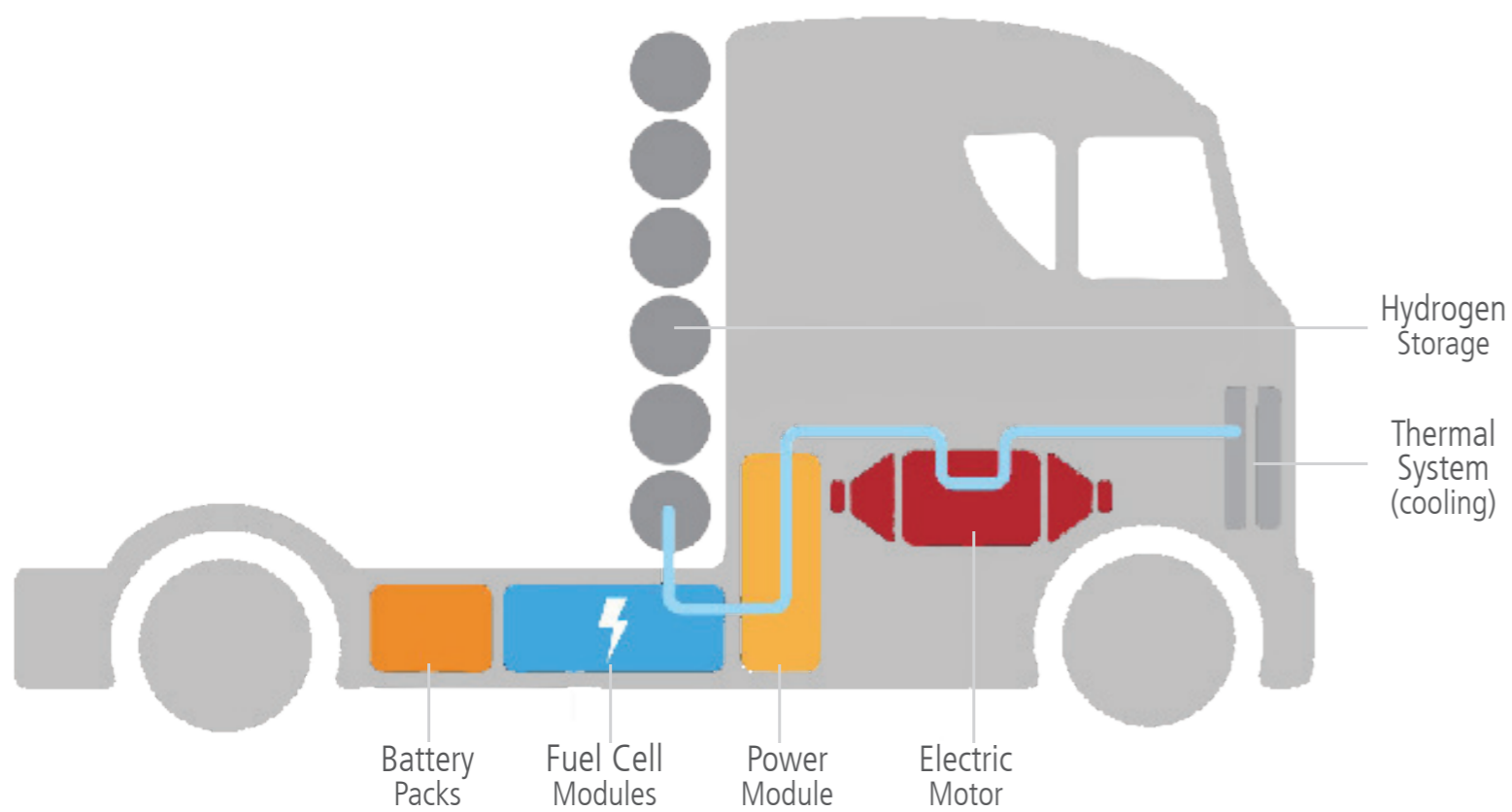




FUEL CELLS HUMIDITY AND TEMPERATURE MANAGEMENT

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

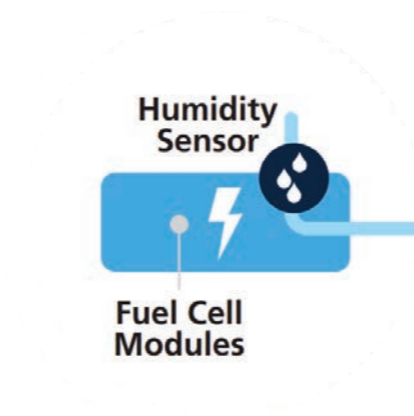
Our proprietary polymer technology guarantees high precision measuring of the RH at high values above 85%. The high humidity stability of our sensors, enables regulation of inlet air into the fuel cell membranes to control humidity.



TEMPERATURE SENSORS

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

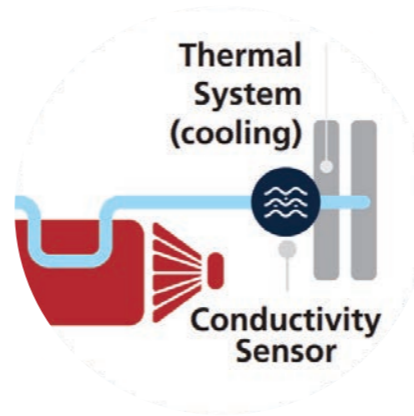
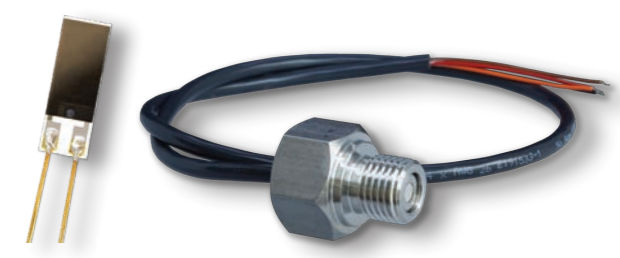
- Fuel Cell Stack
- Electric Traction Motor
- DC/DC Converter
- Battery Pack
- Fuel Filler
- Fuel Storage
- Transmission
- Power Electric Controller



HUMIDITY SENSORS

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

- 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)

