



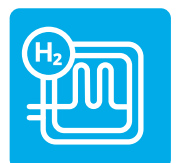
innovative  
Sensor  
Technology

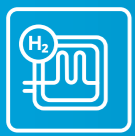
## FUEL CELLS

Temperature, humidity and conductivity  
sensors for hydrogen fuel cells



physical · chemical · biological





# FUEL CELLS

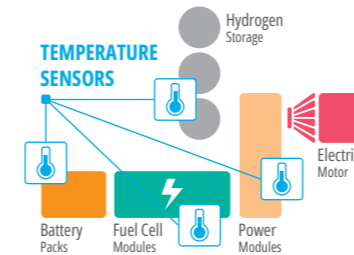
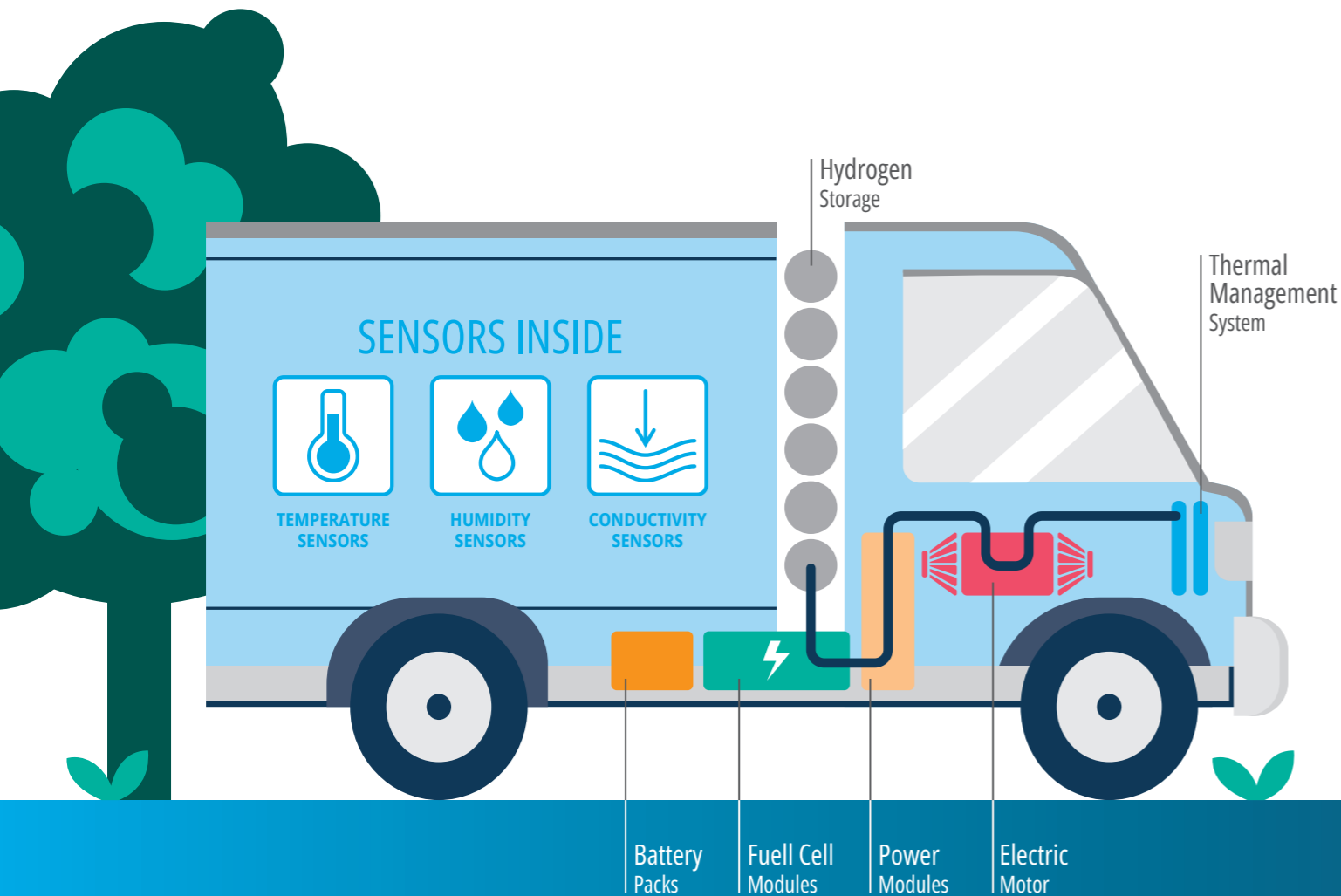
*IST offers a wide range of sensors based on different technologies suitable for any application.*

## Standard or customized

### Sensor components for fuel cells

**A long lifespan of a fuel cell membrane is dependent on accurate sensor based control.**

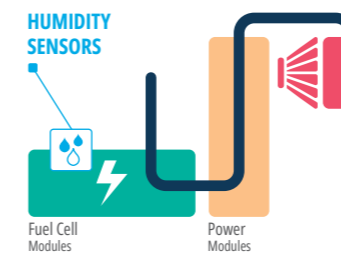
iST's capacitive humidity sensor components are designed for the fuel cell's operating conditions. They work well at high temperatures and elevated humidity levels, i.e. close to condensation.



### Temperature sensors

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

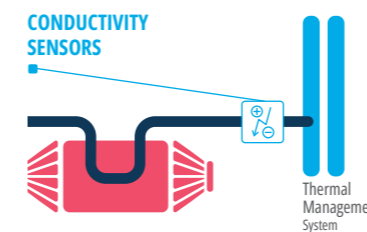
- Fuel cell stack
- Electric traction motor
- DC/DC converter
- Battery pack
- Fuel filler
- Fuel storage
- Transmission
- Power electric controller



### Humidity sensors

Humidity is measured in conjunction with a humidifier to moisturize the air supply to the fuel cell.

- Inlet humidity supply
- Humidifier



### Conductivity sensors

With the continuous conductivity measurement at the ion exchange cartridge the coolant remains non-conductive.

- Thermal management system



# Customized sensor solutions for your application

Benefit from an agile co-creation of your next sensor solution. Use our competence at component level and focus on your added value for fast and successful product development - from simple design adaptations to new measuring principles: from concept prototyping to high-volume manufacturing.

