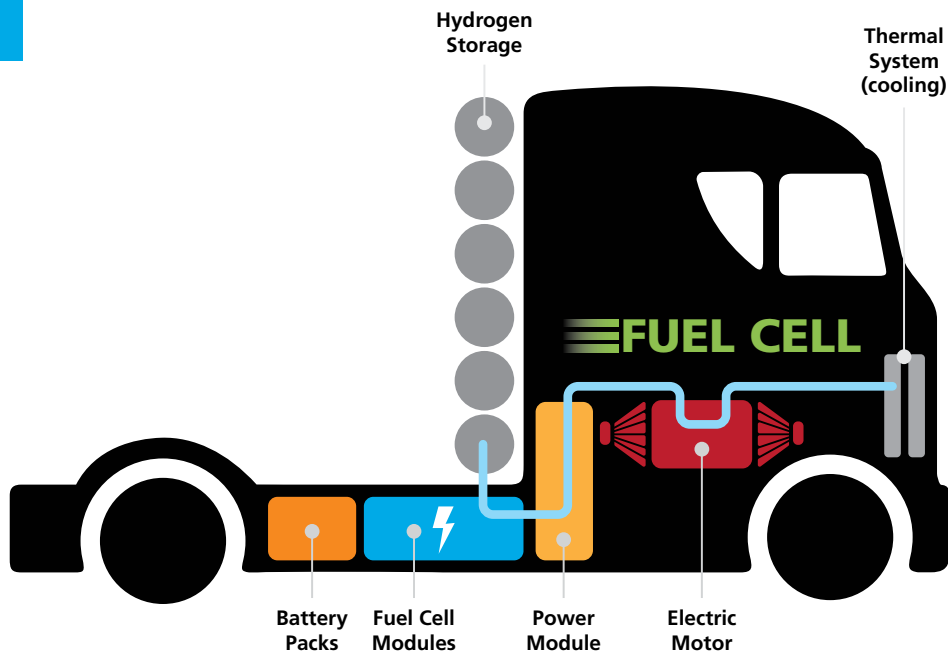




Fuel Cells humidity & temperature management



Temperature sensors:

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

Humidity sensors:

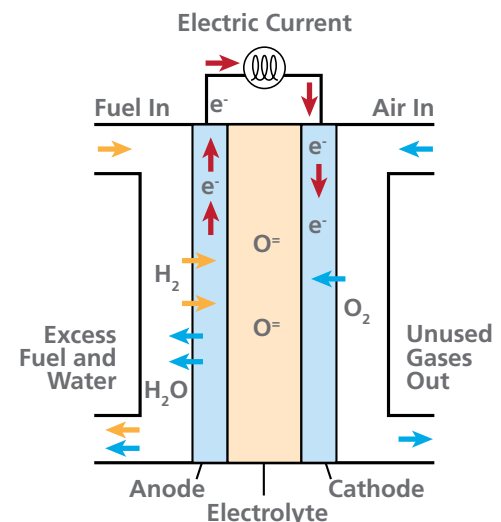
- Fuel Cell Stack
- Humidifier

Conductivity sensors:

- Thermal System (cooling)

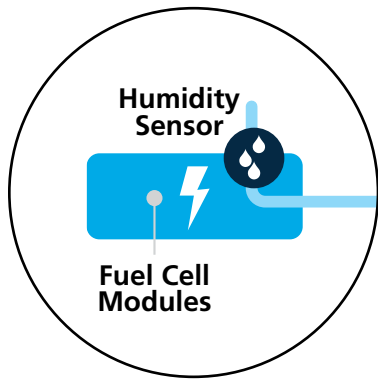
When moisture and temperature are properly controlled with quality sensors, efficiency is increased, while potential loss of the cell is prevented.

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.

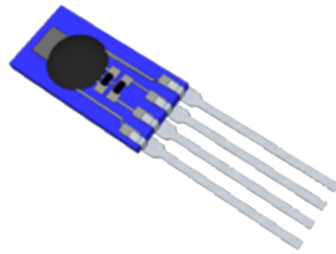


**For critical
and demanding
applications,
rely on IST.**

Innovative Sensor Technology, USA. Division
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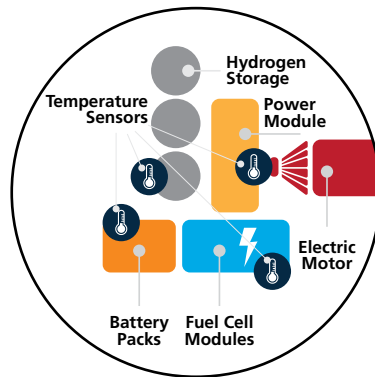
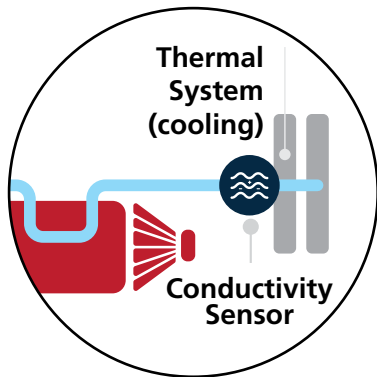


HYT Humidity Module



Humidity Sensors

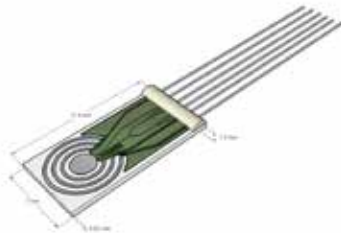
Reliable high humidity measurement requires drift-free humidity sensors and fast temperature compensation. IST's heated HYT module also provides a uniquely compact and affordable solution.



Conductivity and Temperature Sensors

Most thermal management systems used for cooling fuel cells are water-glycol based and require continuous conductivity monitoring to ensure optimal heat transfer and electrical safety. IST's module has a sensitive EC sensor with an inter-digital structure and a PT1000 Temperature Sensor, assembled into a rugged durable housing.

Conductivity Sensor



Temperature Sensor



IST Innovative Sensor Technology

Custom designs for all your applications. Speed up your product design phase by designing application-specific sensor components pre-assembled for easy system integration. Our IST experts will help you find the right sensor solution to fit your requirements.

