



TriCAN SENSOR

for the Automotive, Industrial and Commercial Transport Industry

Using TE Connectivity's (TE) proprietary technology, the TriCAN sensor measures, as standard: fuel cell cathode pressure (available range "0 to 1.1 bar" or "0 to 2.5 bars"); relative humidity; specific humidity and fuel cell cathode temperature. In addition, it can be customized for dewpoint measurement.

The TriCAN sensor enables the monitoring of key physical parameters on the cathode side of the fuel cell stack to increase system durability and lifetime.

PRODUCT HIGHLIGHTS

- All-in-one combo sensor to increase fuel cell lifetime
- Validated product with 10+ years field-proven experience
- Fast response time even in saturated humidity environment

PRODUCT SPECIFICATIONS

Solution Name	TriCAN Sensor
Application Focus	Fuel Cell
Sensor Type	Combo Humidity, Pressure and Temperature

PART NUMBERS

HPP816E031	12V - 1.1 Bar
HPP816E056	24V - 1.1 Bar
10142062-00/01	12V - 2.5 Bar
10142061-00/01	24V - 2.5 Bar

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FEATURES & BENEFITS

- Digital CAN output as per J1939, CAN2.0
- Rugged, automotive-grade sensor, for harsh environment
- High resistance to chemicals
- Customizable CAN frame
- 2 pressure ranges available (0 - 1.1 bar / 0 - 2.5 bar)
- 3 power supplies available (5V / 12V / 24V)


MAIN SPECIFICATIONS

	Range	Accuracy
Relative Humidity	0 - 100% RH	±3% RH
Pressure	0 - 250 kPa	±1% FS
Temperature	-40°C - +105°C	±0.5°C
Specific Humidity	0 - 150 g/kg	±2.5 g/kg (0-30 g/kg)

DIMENSIONS

Length	55.9 mm (± 1 mm)
Width	64.3 mm (± 0.1 mm)
Height	76.25 mm (± 1 mm)

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aut-TriCAN-sensor | Published 03-2022