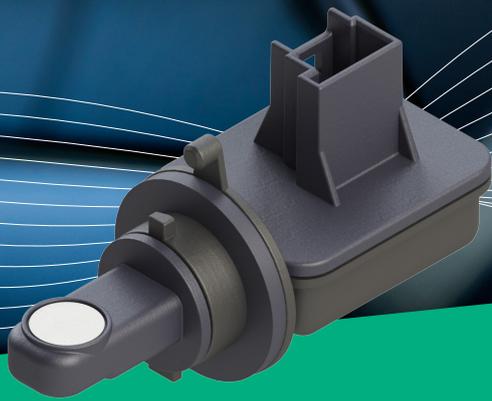


DPS1



Automotive HVAC Air Duct Dewpoint Sensor for Optimal Evaporator Control

- Fast and extremely accurate dewpoint detection
- Full automotive grade module
- OEM-customizable

DPS1

Automotive Dewpoint Sensor

Automotive HVAC air duct dewpoint sensor for optimal evaporator control and energy savings.

The DPS1 Dew Point Sensor is a fully automotive-qualified module for dewpoint detection in automotive HVAC systems, strategically positioned in the air duct before the evaporator to predict total enthalpy in air. The DPS1 utilizes a state-of-the-art temperature and humidity sensor to calculate accurate dew points. By optimizing evaporator setpoints, the module

ensures maximum efficiency at enhanced passenger experience with reduced blower air flow and noise.

DPS1 users benefit from exceptional energy savings, translating to significantly reduced A/C energy consumption. For modern electric vehicles, these energy efficiencies directly contribute to an extended battery range, making DPS1 a game-changer in the pursuit of sustainable and eco-friendly transportation.

Features

- Fast and accurate dewpoint detection
- Duct-sensor shape with probe and bayonet
- Fully OEM customizable with LIN communication
- Rugged IPX7 sensor probe packaging

Benefits

- Precise HVAC evaporator control
- HVAC energy savings for extended battery range
- Improved passenger experience
- Tool-free electromechanical integration
- Reliable automotive technology

Properties

- AEC-Q100, ISO/IATF16949:2016 and VDA6.3 conformant design with full traceability
- Temperature range: -40 – 85°C
- Humidity range: 0 – 100% relative humidity
- Dewpoint accuracy down to $\pm 1^\circ\text{C}$
- Dimensions: W 25 x L 58 x H 31mm³
- Current consumption: <20mA at 12V
- Weight: <15g

Typical Application

- Automotive HVAC dewpoint detection

