

Climate seat sensor

SACS series



Features

- Rapid response time
- Rounded edges and soft material for undetectable integration in the seat
- Smart three-wire interface for easy integration into a seat cable harness
- 15-kV ESD protection for safe handling on the production line

The smart reduction of energy usage starts with accurate monitoring technology – and climate-controlled seats are no exception. Our sensor is integrated into the seat structure, above the cushion and directly beneath the cover material, where it monitors humidity and temperature in the immediate vicinity of the passenger. It communicates this information to the HVAC controller, which uses the data to optimize seat ventilation, reducing cool air requirements. With its fast response time, it provides advanced information before the occupant begins to sweat.

Specifications

SACS series specifications	
Relative humidity	Range 0-100 % Accuracy $\pm 3\%$ (10-60°C air temp./10-80% RH) Response time < 10 sec
Temperature	Range -40 to +90°C Accuracy $\pm 0.4^\circ\text{C}$ (10-70°C air temperature)
Dimensions	19.5 mm \times 11.5 mm \times 2.6 mm
Weight	< 6g
IP rating	IP5K2
Supply voltage	4.5-5.5V
Wire assignment	Ground, output (MSPPM* signal), power supply

* Multi-signal pulse-position modulation