

Delphi Humidity Sensors

Description – The Delphi Humidity Sensor delivers an accurate measurement of relative humidity to a control system. This can help improve the accuracy and efficiency of a heating, ventilation and air conditioning (HVAC) or engine management (EMS) system, which can result in improved system performance and optimized fuel economy.

The relative humidity information is processed by signal conditioning electronics mounted with a capacitive sensing element on a circuit board. The electrical interface plugs directly to the harness connection system. Both the sensing element and conditioning electronics are packaged in a twist-lock or threaded housing for easy installation.

Benefits –

- Conditioning electronics integrated with the sensing element
- Calculates an accurate measurement of relative humidity
- Thermistor output allows for dew point calculation
- Simple, lightweight, and cost-effective design
- Robust sensing element with ability to recover from 100 percent humidity and operating range to +125°C, allowing applications in harsh environments



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- Design flexibility with customized packaging of:
 - Mounting features
 - Sealing options
 - Connection system
 - Resistance output
- High reliability
- High resistance to temperature extremes and thermal shock
- Simplified assembly process
- Consistent performance characteristics
- Reduced performance variation

DELPHI

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