

Fast Facts

Combined Pressure and Temperature Sensor

For low pressure and aggressive Media applications

AB Elektronik Sachsen has developed a new combined temperature and pressure sensor, designed for low pressure, high sealing requirements where extreme robustness is required. In common with most of KYOCERA AVX Components (Dresden)'s pressure sensors, it is equipped with a stable, highly robust ceramic pressure cell. To combine excellent robustness with the high sealing requirements of systems such as the fuel tanks of hybrid cars, the ceramic pressure port is connected directly to the ceramic body of the monolithic ceramic pressure cell.



A combination of robustness and precise measurement means that these pressure sensors are increasingly used in low pressure applications. An integrated temperature sensor provides a temperature signal for the system.

With just two mounting modules (pressure port with connected cell, and a sensor housing with PCB and plug inserts), the Combined Pressure and Temperature : sensor design with high chemical resistance.

Typical applications

Suitable applications for this sensor include pressure measurement in liquids and /or gaseous media such as petrol tanks or pipes within chemical industries.



Special Features

- Double O-ring sealing (single O-Ring possible)
- Temperature and pressure sensors in systems with high sealing requirements
- Integrated temperature-pressure sensor combination

Technology: Piezo resistive ceramic thick film and NTC

Pressure / Temperature range: -200 +500 mbar / -40 °C ... 85 °C (storage temperature up to 120 °C)

Accuracy p: +/-5 mbar (-10 °C ... 85 °C); +/-10 mbar (-40 °C ... -10 °C)

Fixing: On request (e.g. clamping ring...)

Connector: MLK 1.2 – other connectors on request

Output signal: Digital (e.g. SENT, CAN)