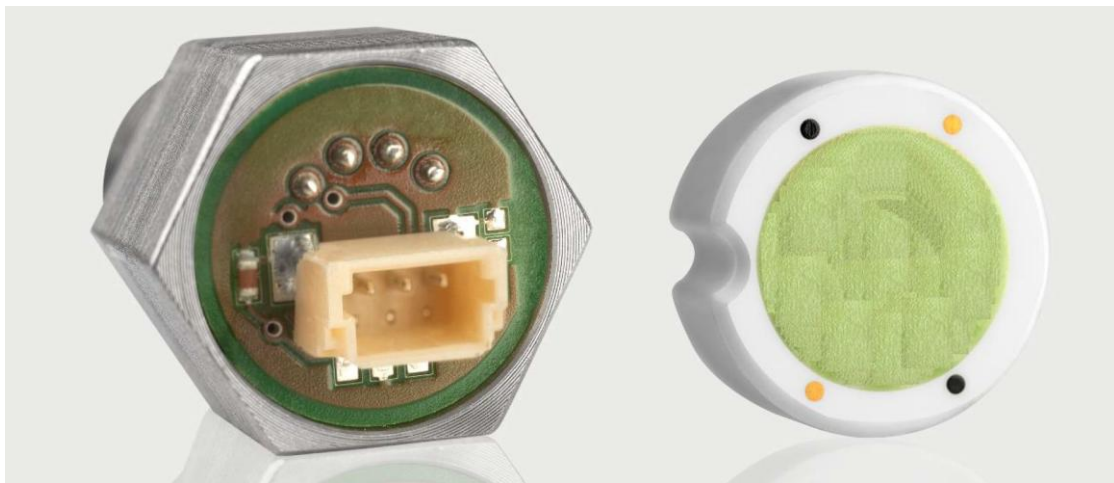


ME900 – Ceramic Gauge Pressure Sensor for Easy Screw Mounting

Ceramic pressure sensors have traditionally posed significant challenges for engineers, particularly regarding their mounting. The new ME900 solves the issue of potential stress-induced distortion in the ceramic by being factory-mounted in a screw-in stainless steel housing. This makes the gauge pressure sensor offered by AMSYS more accessible to a broader user base, providing the chemical robustness of ceramic sensors in a convenient format.



ME900 ceramic pressure sensor in stainless steel housing

Ceramic pressure sensors made of Al_2O_3 are chemically resistant to nearly all aggressive media. However, when pressing bare sensing elements (shown on the right in the image), stress from the housing can lead to offset errors.

AMSYS, based in Mainz, offers the ME900 as a ceramic sensing element with an outer diameter of 9 mm, permanently mounted in a stainless steel (AISI 316) housing with a 1/8-Gas (UNI338) thread. The sensors are thermally compensated and calibrated, delivering an accuracy of up to 1% at 25 °C and 1.4% in the range from 0 °C to 85 °C. The operating temperature range spans from -20 °C to 85 °C. ME900 gauge pressure sensors are standalone devices and require no additional circuitry.

The ME900 gauge pressure sensor is available for pressure ranges of 10 bar, 20 bar, 50 bar, and 100 bar. With a 5V supply voltage, current consumption remains below 6 mA. The pressure is output as a ratiometric signal via a 3-pin JST connector. The integrated ASIC enables calibration and temperature compensation during manufacturing. Additionally, it monitors the aging process and allows for traceability of the sensors through a stored batch number.

AMSYS recommends the new ceramic sensors for applications involving (contaminated) water or aggressive media, such as in (waste)water technology, medical technology, and of course, hydraulic systems.

Press Release

AMSYS GmbH & Co. KG



Title

ME900 – Ceramic Gauge Pressure Sensor for Easy Screw Mounting

Applications

- Sewage / drinking water Applications
- Industrial automation
- Medical technology
- Process monitoring
- Pneumatics
- Hydraulics

Product Page

<https://www.amsys-sensor.com/products/pressure-sensor/me900-ceramic-miniature-pressure-sensor-in-stainless-steel-housing/>

The Company

AMSYS GmbH & Co. KG is a German company specializing in sensor technology, particularly pressure measurement. Its product range includes pressure sensors from 1.25 mbar to 800 bar, as well as humidity, temperature, and inclination sensors, along with wireless solutions. In addition to standard products, AMSYS offers custom adaptations to meet specific customer requirements.

Adress

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