Ceramic pressure sensors from Metallux AG - the ideal thick film measuring cells for many applications

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The ceramic pressure sensors designed and manufactured by Metallux AG distinguish themselves with an outstanding quality, highest precision and reliability coupled with long lasting and durable operation. Available are the Metallux thick film pressure sensors as monolithic or flush mounted and with an integrated pressure connection.

The pressure sensor series CPS by Metallux based on the proven thick film technology and the resistant base material ceramic (Standard 96% Al₂O₃ alternate on request 99,6% Al₂O₃), suitable for pressure measurement of gaseous and liquid media. Various standard versions offer an optimal selection of the respective application. The manifold applications include amongst others pumps, pneumatic, force-and pressure transmitters, filters, pressure switches and high pressure cleaners for industrial purposes, automotive area as well as the medical sector.

The ceramic Metallux pressure sensors have following characteristics:

- Stability <0,1% / <0,25% (150°C 1000h)
- Standard-operating temperature -40 to +150°C
- Various output signals:
  - Voltage output
  - Signal amplified 0,5-4,5V / 0-10 V / 4-20mA

In summary following advantages can be attributed to the Metallux AG ceramic pressure sensors:

- Resilient technology
- High resistance against aggressive media
- Long term stability due to an elaborate calibrating system
- Temperature-and moisture resistance
- Excellent price-performance ratio

Easy assembly and calibration of the sensor enable an economic manufacture of the customer product. The compact design, the very high media resistance and the excellent long term stability make the CPS 1184 with grid dimensions 2,54 and 1,27 an excellent choice.
Ceramic pressure sensors with flush mounted membrane

Flush mounted sensors are suitable to measure relative as well as absolute pressures. The flush mounted membrane facilitates easy cleaning, an important requirement for usage in the medical field as well as the food related industry. For usage in extreme aggressive media, membranes are also available in 99.6% Al₂O₃.

Ceramic pressure sensors with amplified output signal

The ceramic pressure sensors of the series CPS 1184 Z are mounted with an amplifier and are being calibrated with an output signal 0.5 V up to 4.5 V. Additional calibration of the output signal is possible upon request. Many customers in the automation-and medical technology find the easy processing of the signal very useful. High long term stability and resistance against a multitude of media are additional characteristics of this series.

Photo: Ceramic Pressure Sensor CPS 1184 Z

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About Metallux:

Metallux AG is a high performance manufacturer of electronic components in thick film technology. The Swabian high tech company of has a wide scope of performance and offers next to the standard range of pressure-linear-and rotary – as well as foil sensors, high voltage and power resistors also custom specific solutions up to custom specific packages of potentiometers and joysticks. A customer-service orientation together with suitable ideas and solutions ensures satisfied customers. Innovative products, numerous patents and many years of experience- many well-known customers from automotive industry, electrostatic, medical- and industrial industries as well as sensory rely for decades now on the company from Leutenbach-Nellmersbach near Stuttgart.

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