

## Press Release

### Ready-to-use ceramic pressure sensor with standardized output signal – the IC is integrated directly on the measuring cell

Korb, Germany, 2. April 2008

The sensors for the CPS 3500 series represent a ready-to-use module with an output signal of 0.5...4.5V and they allow the user to build up media-resistant pressure transmitters or pressure switches without additional calibration steps. The CPS 3500 intentionally does away with an additional PCB to accommodate the circuit, therefore the IC for evaluating the sensor signal and components to protect the circuit from the effects of EMC are assembled directly on the ceramic measuring body without affecting the measurement properties of the pressure sensor. Consequently, the sensors are characterized by extremely high resistance to mechanical influences such as shock and vibration.

Metallux AG in Korb, Germany has expanded its product range for ceramic thick-film pressure sensors, adding yet another innovative sensor. Compared with previous sensors with an unamplified outputsignal, the new CPS3500 has a ratiometrically balanced output signal of 0.5...4.5V.



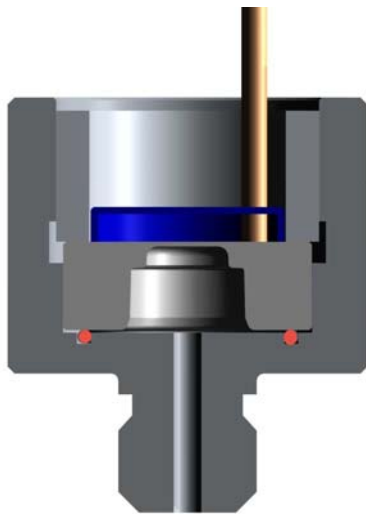
#### Metallux CPS 3500

The sensors for the CPS 3500 series represent a ready-to-use module with an output signal of 0.5...4.5V and they allow the user to build up media-resistant pressure transmitters or pressure switches without additional calibration steps. All the compensation and calibration processes are carried out digitally in the evaluation IC. Compared with sensors with integral signal processing already available on the market, the CPS 3500 intentionally does away with an additional PCB to accommodate the circuit. The IC for evaluating the sensor signal and components to protect the circuit from the effects of EMC are assembled directly on the ceramic measuring body without affecting the measurement properties of the pressure sensor. Consequently, the sensors are characterized by extremely high resistance to mechanical influences such as shock and vibration.

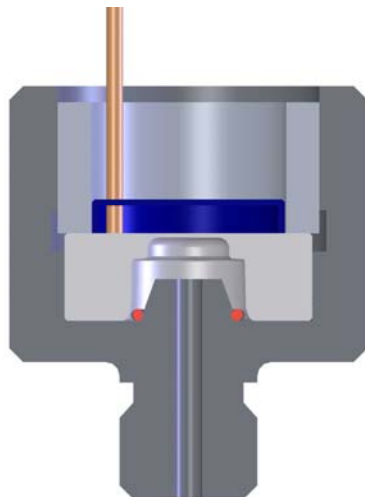
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The modified measuring body geometry is a further innovation. It allows the user to select radial sealing for the pressure sensor in addition to the usual axial sealing.



Installation example for Metallux CPS 3500 with axial sealing



Installation example for Metallux CPS 3500 with radial sealing

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With its 18-mm diameter, which is familiar and in general use, the CPS 3500 can be integrated into already existing transmitter housings without major changes being necessary.

#### The benefits of the CPS 3500 can be summarized as follows:

- Integral signal conditioning with ratiometric output signal 0.5 ... 4.5V
- No calibration by the user required
- Exceptionally good EMC properties by amplification on the measuring cell
- Quick and easy installation
- Minimal effects of temperature changes on accuracy
- Both axial and radial sealing possible for the sensor

"The expansion of our business activities in our core competence the screen printing process is very important for us. In future we will strengthen our team in this range" so Andreas Oberascher, CEO of Metallux AG.

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#### About Metallux:

Metallux AG is a high-capacity manufacturer of electronic thick-film components. Metallux provides a broad spectrum of services and in addition to the standard program of pressure, position, angle and foil sensors, high-tension and power resistors also offers complete customer-specific solutions including customization of potentiometers and joysticks. Proven customer orientation providing suitable ideas and solutions ensures satisfied customers.

Innovative products and many years of experience – numerous well-known customers from the automobile industry, electrostatics, medical and industrial electronics and sensor systems have relied on the company headquartered in the vicinity of Stuttgart for more than 22 years.

#### For more information:

[www.metallux.de](http://www.metallux.de)

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