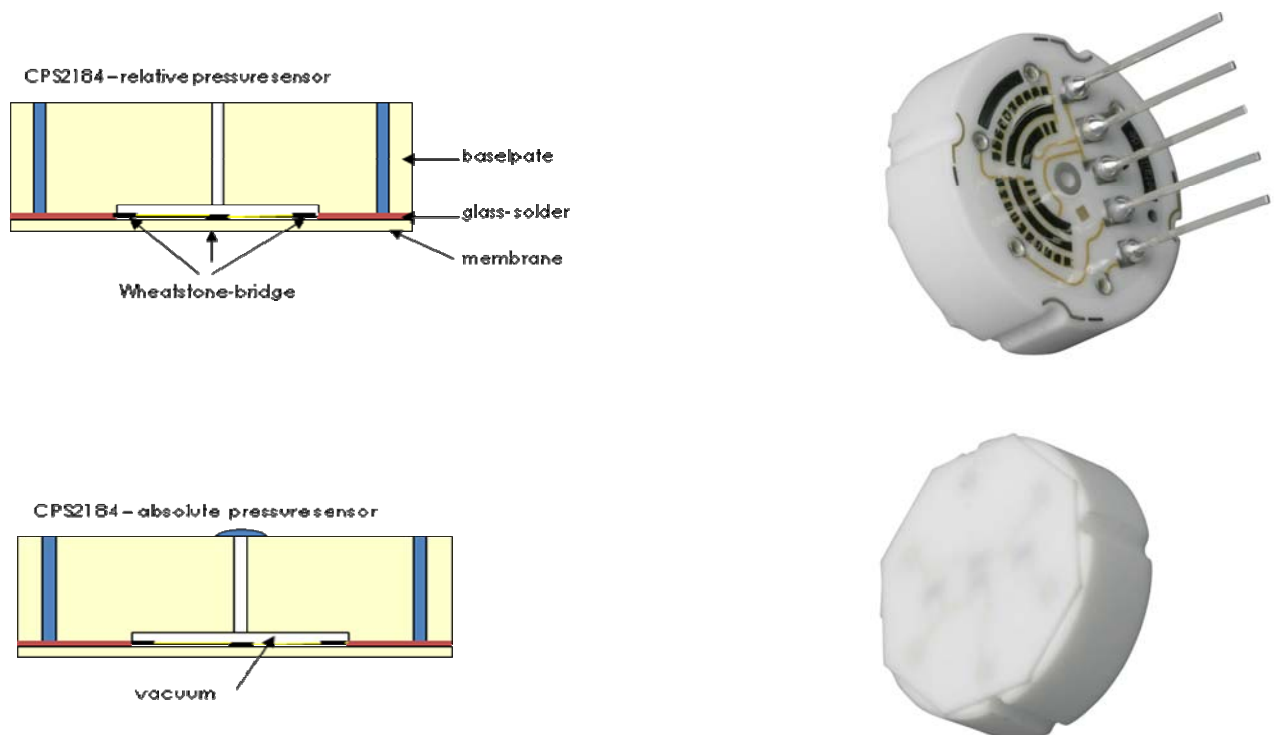


Press Release

Flush mounted membrane- Two-piece piezo-resistive ceramic pressure sensor

Korb, Germany, 22. October 2008 - Metallux AG extends its product range of ceramic thick-film-pressure sensors by adding another series type. Presently manufactured sensors are monolithic e.g. build-up of one piece. The sensors of the new series CPS 2184 consist of two pieces; base plate and the other one a flush mounted membrane. One of the advantages is the ease of cleaning the sensor due to the flush mounted membrane as well as the fact that the output-signal is independent of the ambient pressure.

A thin ceramic membrane is fitted via glass-solder onto the ceramic base plate. Onto this membrane a Wheatstone-Bridge is printed in thick film technology. Connections between base and membrane, result in a piezo-resistive pressure sensor. Therefore it is possible to realise absolute pressure sensors as well as gauge pressure sensors. In the absolute pressure version a vacuum is generated between membrane and base plate, whilst in the gauge pressure version pressure equalisation takes place via a hole in the base plate.

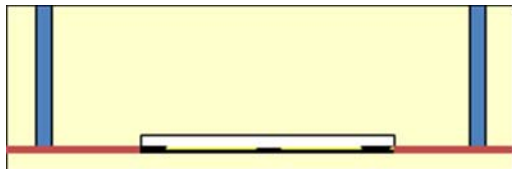


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Pressure ranges higher than 100bar are under constant pressure (sealed gauge), no bore in base body. The advantage of this construction is that in case of overload the membrane can burst however the medium will not escape.

CPS2184 – sealed-gauge pressure sensor



The pressure sensors with flush mounted membranes are designed for a measurement ranges from 1 bar up to 600 bars (0.5 bar in design stage). Standard version offered with off-set- and temperature compensation, optional it is possible to add signal conditioning board delivering with a ratiometric output signal of 0,5..4,5V. The familiar outer diameter of the monolithic ceramic sensor of 18mm was retained in order to integrate the sensors into many already existing housings.

The excellent chemical consistence of the aluminiumdioxide ceramic makes the CPS 2184 resistant against most media. High demands for easy and reliable cleaning in the food-and pharmaceutical industry are easily met by the flush mounted ceramic membrane.

Variations of ambient pressure often distort the accuracy of measuring results. The absolute pressure version of serie CPS 2184 can be used, when the output signal has to be independent of the ambient pressure.

CPS 2184 Sensors: Summary of advantages

- easy and simple cleaning due to flush mounted membrane
- little dead volume
- available as absolute-and gauge pressure sensor
- high burst pressure at pressure ranges higher than 100bar
- easy and fast fitment
- easy integration into existing housings
- marginal temperature influence onto accuracy

Press Release

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About Metallux

Metallux is a high performance manufacturer of electronic components in Tick-Film Technology. The comprehensive product portfolio consists apart from Standard Pressure-, Linear-, Rotary- as well as Foil Sensors, High Voltage- and Power Resistors to custom specific complete solutions as well as Potentiometers and Joysticks. Customer orientated solutions and the right ideas result in satisfied customers.

Innovative products together with long term experience – numerous well known customers ranging from the automotive, electrostatic, medical, industrial and sensoric industry rely for more than 22 years on the company situated near Stuttgart.

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