

### MS5547 - Digital gel-protected gauge pressure sensor

Gel-protected pressure sensors in SMD housings are very popular due to their wide range of applications, whether in pneumatics, wearables or medical technology. This inexpensive yet robust design is now also available in a version for relative pressure up to 2 bar.



Gauge sensor MS5547-02BD with gel protection and I<sup>2</sup>C / SPI interface

Media resistant relative pressure sensors like the MS5547 are used in very different areas, such as in medical technology, but also in e-cigarettes. Both a biocompatible silicone gel and a particularly robust Flour gel are available.

The new MS5547 offers maximum accuracy in the range of -200 ... +2200 mbar. The pressure and temperature data can be read out in 24-bit format via I<sup>2</sup>C or SPI. The 11 correction coefficients stored in the sensor enable external compensation down to an accuracy (TEB) of less than 5 mbar.

The biocompatible plastic housing is sealed with a 2 x 1 mm<sup>2</sup> O-ring and the overall size of the sensor is only 4 x 4 x 4.4 mm<sup>3</sup>. The sensor is exposed to atmospheric pressure through a little hole in the ceramic under the sensor.

The sensors are suitable for reflow soldering and are of course RoHS and REACH compliant.

# Press Release

## AMSYS GmbH & Co. KG



### Title

MS5547 - Digital gel-protected gauge pressure sensor

### Applications

- Air and non-corrosive gases pressure measurements
- Medical instruments
- E-cigarettes
- Wearables
- Vacuum lifters

### Product Page

<https://www.amsys-sensor.com/products/pressure-sensor/ms5547-tiny-gel-protected-smd-gage-pressure-sensor/>

### 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.

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