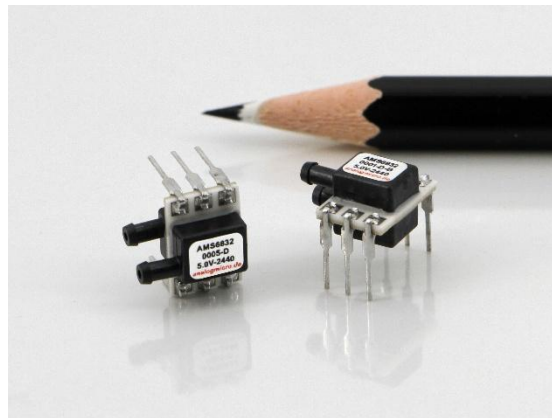


### AMS 6832 – Tiny Analog-Digital Solution for Differential Pressure Measurement

Cutting-edge pressure sensor technology combined with a proven analog output in a tiny DIL-6 package – that's the new AMS 6832 differential and relative pressure sensor. With pressure ranges from  $\pm 125$  pascals up to  $\pm 100$  mbar, this new AMSYS sensor is perfectly suited for versatile use in ventilation, CPAP, and anesthesia devices. Spirometers and insufflators will also benefit from this compact all-rounder. Thanks to its one-sided media resistance, it can additionally be used in infusion and suction pumps (NPWT). Beyond medical technology, the sensor also finds applications in building technology (HVAC) for pressure and flow measurements.



Pressure sensor AMS 6832 with analog and I<sup>2</sup>C output

In addition to its ratiometric analog output, the low-pressure sensor provides a digital I<sup>2</sup>C interface with 24-bit resolution for maximum precision. Via this channel, the AMS 6832 can transmit not only its low-noise pressure readings, but also the temperature to virtually any available microcontroller.

The compact sensor in a robust DIL-6 package for PCB mounting is based on a piezoresistive silicon pressure cell paired with a state-of-the-art signal processing ASIC. The AMS 6832 offers a total error of less than 1% (for pressures  $> \pm 5$  mbar) across the temperature range of  $-25$  to  $+85$  °C, and half that error at room temperature, making it one of the smallest and most accurate differential pressure sensors available.

AMSYS offers this sensor for pressure ranges from  $\pm 125$  Pa up to 100 mbar, covering various bi- and unidirectional differential and relative pressures. Customer-specific adaptations are possible. To support rapid prototyping, AMSYS GmbH provides a USB starter kit for initial setup as well as a dedicated team of consultants.

# Press Release

## AMSYS GmbH & Co. KG



### Title

AMS 6832 – Tiny Analog-Digital Solution for Differential Pressure Measurement

### Applications

#### Medical technology

- Ventilators
- Sleep apnea therapy devices (CPAP)
- Spirometers
- Anesthesia devices
- Dialysis machines
- Infusion pumps
- Oxygen concentrators
- Vacuum suction pumps
- Insufflators
- Blood glucose meters
- Pulse oximeters
- Computed tomography (CT)

#### HVAC and measurement technology

- Volumetric flow measurement
- Duct pressure monitoring
- Room pressure monitoring
- Filter monitoring

### Product Page

<https://www.amsys-sensor.com/products/pressure-sensor/ams6832-dip6-analog-digital-small-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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