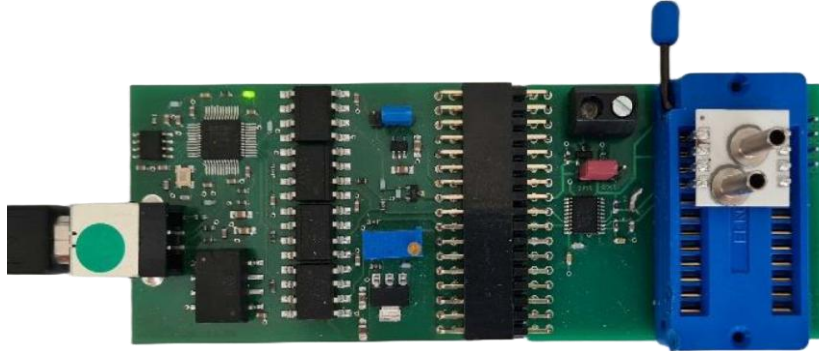


Press Release

AMSYS GmbH & Co. KG



AMS 5935 and USB StarterKit – the Dream Team for Fast Development Results in Pressure Measurement Technology



Differential pressure sensor AMS 5935 in the USB StarterKit from AMSYS

Highly accurate pressure sensors today work almost exclusively with digital interfaces such as I²C or SPI to avoid conversion losses. Developers must therefore familiarize themselves with the details of the control system for every new sensor, which differs slightly from sensor to sensor.

To perform initial qualification tests or proof-of-principle measurements quickly, an affordable USB StarterKit is available for almost all AMS sensors. It not only allows for pressure measurements within minutes, but logs measurement series on a PC. Additionally the I²C addresses of the sensors can be changed, in case several sensors have to be operated on one I²C bus.

The AMS 5935 is the icing on the cake: highly precise even at the smallest differential and relative pressures down to the range of +/- 125 Pascal, while at the same time predestined for mobile power applications in the range of 1.7 V to 3.6 V due to its low power consumption of only 250 nA in sleep mode. AMSYS offers the AMS 5935 for differential, relative, absolute and bidirectional pressures up to 2 bar.

A Total Error Band (TEB) of only 0.25% over the entire temperature range of -25 .. 85°C paired with the effective 18-bit output enables low-noise pressure and temperature measurements with these individually calibrated pressure sensors. To minimize thermal influences, the piezoresistive silicon pressure measuring cell is built onto a ceramic DIL housing for PCB mounting with a state-of-the-art signal processing ASIC.

This board-mount sensor is available in two housing variants: either with classic vertical hose connections or in a space-saving valve block variant for mounting with O-rings. Customer-specific adaptations are of course possible. In addition to the USB StarterKit, the consulting team at AMSYS also supports you in quickly integrating the sensor in your project.

You can have a closer look at both sensors and StarterKit at booth 340 of the SENSOR+TEST in Nuremberg, Germany, 09. – 11. June 2026. Please consult AMSYS for free tickets to the show!

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Title

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Applications Medical devices

- Respiratory devices
- Sleep apnea therapy devices (CPAP)
- Spirometers
- Anesthetic devices
- Dialysis machines
- Infusion pumps
- Oxygen concentrators
- Vacuum suction pumps
- Insufflators
- Blood sugar measuring devices
- Pulse oximeters
- Computer tomographs (CT)

Applications HVAC and Instrumental

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

Product Page

<https://www.amsys-sensor.com/products/pressure-sensor/ams5935-low-energy-pressure-sensor-125-pascal/>

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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