



Pressure Sensorics for Industry 4.0

A pressure transmitter trio for remote predictive maintenance

Networking is the keyword of the day. Pressure sensors with IO-Link or Bluetooth wireless interface can monitor almost all processes remotely. With the wireless U5600 absolute and relative pressure sensor, the AMS 4516 differential pressure sensor with Bluetooth connection and the innovative P.Touch pressure switch with touch-screen operation and IO-Link interface, the German company AMSYS has an unbeatable trio for all application cases in its product range.

Switching pressures just by fingertip? The brand new P.Touch pressure switch is operated via a color touch display for intuitive usage. The media-resistant pressure switch for hydraulic fluids or water is available for maximum pressures ranging from 10 bar to 600 bar. Two variable programmable switching outputs with 200 mA switching current allow direct connection of common relays and many valves. Alternatively, an analog output is available. The rotatable display and the (programmable) color coding allow a quick visual control, the IO-Link a remote control - Remote Predictive Maintenance made easy!



P.Touch pressure switch with touchscreen, additional analog output and IO-Link

Pressures in hard-to-reach plant areas can be monitored quickly and easily via Bluetooth-connected sensors. Battery lifetimes of over 2 years are no longer a problem thanks to the energy-saving BLE 5.1 protocol. The sensors can be read either directly and easily via a cell phone app or via a gateway over the network. Cloud connection is also possible here.



U5600 BLE sensor for absolute or gauge pressure

With the U5600, AMSYS also offers a media-resistant Bluetooth sensor for absolute and relative pressure measurements. IP67-certified, it also qualifies for harsh environmental conditions. The measurable maximum pressures are between 350 mbar and 35 bar. The 24-bit data words have a measurement error that is less than 0.75% in most ranges.

The AMS 4516 in matchbox format, on the other hand, can measure even the smallest pressure differences with an accuracy of less than 0.07 mbar. The available pressure ranges vary between 5 mbar and 1000 mbar. Bidirectional types (+/- 5 mbar to +/- 1000 mbar) are also available. The sampling and transmission rate for the sensor readings can be set between 100 ms and 500 s via the app. The battery life depends on the configuration of the sensor and can be up to 3 years with a standard button cell of approx. 230 mAh.



AMS 4516 differential pressure sensor with Bluetooth connectivity and app or gateway



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The AMSYS GmbH & Co. KG from Mainz is your specialist for customized adaptations for pressure, humidity and temperature sensors. Special pressure ranges or application-specific software are the most common, but not the only customer requests.

Networkable pressure sensor technology from AMSYS at a glance

- IO-Link or Bluetooth BLE
- Partially additional switching or analog outputs
- Partly additional operation on site via touch display
- Pressure ranges relative: 0.35 ... 600 bar
- Pressure ranges absolute: 0.35 ... 35 bar
- Differential pressure ranges: (+/-)0.005 ... (+/-)1 bar
- Power supply via lithium battery (wireless versions) or 9 V ... 30 V
- Measuring precision from ± 0.5 % to ± 1.5 % FSO, depending on type and measuring range
- Customer specific adaptations possible

AMSYS at a glance

- AMSYS GmbH & Co. KG (www.amsys-sensor.com) offers a wide range of humidity, temperature, inclination and pressure sensors.
- In addition to the product range, the company offers consulting, project support and customized pressure sensors.
- A new product line is the Wireless Sensor Solutions - networked Bluetooth sensors

Meet AMSYS at the
Electronica trade show: hall B3 booth 440 or
Medica/Compamed: hall 8A, booth 8A M04 or visit
www.amsys-sensor.com

Further Informationen:

- [1] Home page AMSYS: www.amsys-sensor.com
[2] Product page P.Touch: https://www.amsys-sensor.com/products/pressure-sensor/p_touch-medium-resistant-pressure-switch-with-io-link-and-display/
[3] Product page U5600: <https://www.amsys-sensor.com/products/pressure-sensor/u5600-wireless-medium-resistant-pressure-transmitter/>
[4] Product page AMS 4516: <https://www.amsys-sensor.com/products/pressure-sensor/ams4516-pressure-transmitter-with-wireless-bluetooth-4-2-signal/>