

ATEX-certified wireless pressure transmitter M5601 for up to 1,000 bar

With the wireless M5601 absolute and gage pressure sensor with Bluetooth communication practically all monitoring processes for pressures of up to 1,000 bar can be reliably remotely controlled. What's special about this sensor is its explosion-proof ATEX and CSA HazLoc (IECEx) certification that enables it to be used in hazardous environments.



M5601 BLE sensor for absolute or gage pressure

Whether for the measurement of air, gas or oil pressure in plant areas that are difficult to access, for mobile maintenance work with logging of measurement data or for more reliability through predictive maintenance, this sensor transmits measurement data quickly and reliably via Bluetooth. Precise pressures and temperatures can be immediately retrieved on the app for Android™ 4.3 or iOS 7 and higher versions. Battery lives of over two years are no longer a problem thanks to the energy-saving BLE 4.2 protocol.

With the M5601 AMSYS provides a media-resistant Bluetooth sensor for the measurement of absolute and gage pressure. As it is IP65 certified, it also qualifies for use in harsh ambient conditions. Measurable maximum pressures lie between 70 and 1,000 bar (also available as the M5600 without ATEX certification for smaller pressures starting at 3.5 bar).

The pressure transmitters are powered by a CR2032/CR2050W button cell and can be read out using an app or PC software for Windows® XP/7 and higher. They measure the gage or absolute pressure independently of the media. The latter device is configured as a sealed gage relative to a trapped volume, whereas the gage and compound version outputs the measurement relative to atmospheric pressure – the compound version also with negative pressure. All versions are available with various pressure connectors.



Wireless M5601 pressure transmitters are recommended for their robustness, good long-term stability and numerous protective functions for demanding industrial applications. The medium only comes into contact with 17-4 PH stainless steel (1.4542); no internal O-ring is used! This allows all oils, including gasoline and other fuels, to be measured. They can even be used in contaminated water, steam and slightly corrosive liquids.

Parallel to the M5601 AMSYS GmbH & Co. KG also supplies a pressure transmitter for smaller pressure ranges of up to 350 mbar or 35 bar – the U5601 – that is distinguished by its high accuracy and also has ATEX and various other internationally recognized certification for intrinsic safety. These sensors do not need any internal seals yet do have an oil cavity behind the stainless-steel membrane to transmit pressure to a silicon MEMS chip.

AMSYS GmbH & Co. KG from Mainz, Germany, is your specialist for the customized adaptation of pressure, humidity and temperature sensors. The most frequent – but by no means only – requests we receive from our customers in this regard are for special pressure ranges or application-specific software. Whether for a retrofit for pressure measurement, a distance query or integration in a predictive maintenance process, in all three cases wireless pressure transmitter M5601 for absolute and relative pressures of up to 1,000 bar is a safe and reliable option.

Press Release

AMSYS GmbH & Co. KG



Title

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Applications

- controlling pressure in areas that are difficult to access
- Industrial Process Control and Monitoring
- Advanced HVAC Systems
- explosion exposed applications
- Refrigeration Systems
- Automotive Test Stands
- Mobile work tools
- Off-Road Vehicles
- Hydraulic/Pneumatic Systems
- Agriculture Equipment
- Energy generation and energy management

Product Page

<https://www.amsys-sensor.com/products/pressure-sensor/m5601-wireless-atex-hazloc-pressure-transmitter/>

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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