



# Pressure measurement via PLC: AMS 2710 pressure sensor module for direct connection

**AMSYS GmbH & Co. KG, Mainz, January 2022** – For pressure measurement in devices with integrated SPS/PLC or other modular control, traditional encapsulated transmitters are often too expensive and too large. OEM sensors for soldering are inexpensive, but in addition to their own circuit board, they require various electronic components for adjusting the input and output voltage levels and protection against polarity reversal and short-circuiting. Small, inexpensive pressure sensor modules such as the AMS 2710 with 12..36 V input and 0..10 V output voltage are used in such devices, for example exhaust systems and air filters.



*The different connection variants of the directly mountable pressure sensor module AMS 2710: with female connector strip, screw terminals or DIL pin connector strips*

The AMS 2710 series are ready-to-install industrial pressure sensors, which are mounted on a printed circuit board and can be easily installed in a housing without additional components, so-called pressure sensor modules. They are available for absolute, relative and differential pressure measurement in a wide pressure range from 5 mbar up to 2 bar. The modules are also available as bidirectional differential versions (for negative and positive pressure measurement).

These extended pressure sensors have a 0..10 V voltage output at 12..36 V supply. Due to their robust, reverse polarity protected signal output and current limiting, they are thus predestined for industrial environments. Due to the different connection configurations, the AMS 2710 can be connected via solder contacts, a plug or a cable terminal strip. The PCB sensor modules are individually calibrated and compensated and achieve a total accuracy of 0.5 %FS in the entire temperature range (-25..85 °C) and in the pressure range > 200 mbar.

In terms of their functionality, the new PCB pressure sensor modules stand between OEM sensors, which have to be soldered onto PCBs with additional components, and ready-to-install, housed pressure transmitters. In addition to the simple connection to existing controllers, the modules can also be used to very easily manufacture individual transmitters with their own housing.

Further variants are the AMS 2711 with 0..5 V voltage output and the AMS 2712 with 4..20 mA current output. Customized pressure ranges (up to 10 bar) and other modifications are available on request.

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## Metadata

### Title

Pressure measurement via PLC: AMS 2710 pressure sensor module for direct connection

## Main characteristics

- Differential, relative or absolute pressure
- 5 mbar to 2 bar pressure range
- Individually calibrated / compensated
- Accuracy <0,5 %FS
- Different connection variants
- 12..36 V supply voltage
- 0..10 V voltage output
- Reverse polarity protected
- Short circuit protected

## Company

**AMSYS GmbH & Co. KG** is a medium-sized company based in Germany and has focused on the field of sensor technology since its foundation. As a distributor for sensors, AMSYS is one of the specialists in pressure measurement technology on the German-speaking market.

AMSYS' product range extends from piezoresistive pressure sensing elements, simple SMD mountable transducers, amplified/unamplified and matched OEM sensors, PCB modules, to ready-to-use pressure transmitters.

AMSYS offers sensors and pressure cells in the pressure range from 1.25 mbar up to 800 bar. In addition to a wide variety of pressure sensor types, AMSYS also offers OEM humidity sensors, temperature and inclination sensors, and wireless Bluetooth solutions.

Due to the technical competence of the employees and the good contact to the suppliers, customer-specific modifications of the standard products can also be offered, which allows individual problem solutions. Further information can be found at [www.amsys-sensor.com](http://www.amsys-sensor.com).

## Contact

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