

In recent years, there has been a notable shift in the market dynamics of pressure sensors. While pressure transmitters with analog output signals once held sway, the emergence of devices with digital interfaces is reshaping the landscape, driven by the imperatives of Industry 4.0. This evolution underscores the superior capabilities of digital output signals in ensuring accuracy and reliability in pressure sensing applications.

Digital signals offer distinct advantages over their analog counterparts, particularly in terms of signal fidelity and immunity to interference or loss. Unlike analog signals, which are susceptible to various forms of distortion, digital signals ensure that the transmitted data remains intact, delivering consistent and reliable results.

Prignitz Mikrosystemtechnik's pioneering line of sensors, based on advanced protocols such as IO-Link, I2C, PWM, CAN, MOD, exemplifies this paradigm shift, offering unparalleled accuracy, reliability, and compatibility with modern industrial applications.



PMP-S/Sw100-IO-Link

PRESSURE SENSORS/SWITCH SERIES WITH 10-LINK

O IO-Link

ADVANTAGES:

- USEABLE AS IO-LINK PRESSURE SENSOR OR SWITCH WITH TEMPERATURE MEASUREMENT AND IO-LINK
- PLUG & PLAY, COMPACT AND OPTIMIZED DESIGN
- ADJUSTABLE AND READABLE VIA IO-LINK
- HIGH MEDIA RESISTANCE, NO INTERNAL SEALS, WITHOUT WELD SEAM (WITH P2P TECHNOLOGY)

MAIN FEATURE:

- Pressure ranges: from 0...60 mbar to -1...2000 bar
- Mechanical connections*: 1/2"-14 NPT; 1/4"-18 NPT; G1/4"B Mano EN 837; G1/2"B Mano EN 837; G1/4"A Form E; 7/16 - 20UNF: G1/2" Form E flush membrane
- Electrical connections*: M12x1 (S763); Cable output
- Response time: ≥ 3 ms
- Accuracy: ≤ 0.5 % FS
- *others on request. Different special custom-made solutions

PMP-S100-I2C

PRESSURE SENSORS SERIES WITH 12C DIGITAL INTERFACE

ADVANTAGES:

- HIGH MEDIA RESISTANCE, NO INTERNAL SEALS,
- WITHOUT WELD SEAM
- SIGNAL CONDITIONING WITH ASIC
- HIGH INTEGRATION DENSITY
- VACUUM-TIGHT AND ELASTOMER-FREE
- FLEXIBLE FOR CUSTOMISED REQUIREMENT

MAIN FFATURE.

- Pressure ranges*: from 0...60 mbar to -1...2000 bar
- Mechanical connections*: 1/2"-14 NPT; 1/4"-18 NPT; G1/4"B Mano EN 837; G1/2"B Mano EN 837; G1/4"A Form E; 7/16 20UNF
- Electrical connections*: EN 175301-803-A; M12x1 (S763); Deutsch DT04-4P; EN 175301-803-C; Cable output
- Wetted parts**: stainless steel 1.4404 (316L)/17-4
- Response time: 1 ms max 2 ms
- **Accuracy (25°C):** \leq 0.5 % FS after limit-point calibration
- Output: I²C Communication protocol



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ADVANTAGES:

- THE PRESSURE CELLS FROM 60 MBAR TO 2000 BAR ARE AVAILABLE FOR DIFFERENT FIELDS OF USE.
- HIGH MEDIA RESISTANCE, NO INTERNAL SEALS, WITHOUT WELD SEAM
- SIGNAL CONDITIONING WITH ASIC
- HIGH INTEGRATION DENSITY VACUUM-TIGHT ELASTOMER-FREE
- FLEXIBLE FOR CUSTOMISED REQUIREMENT

MAIN FEATURE:

- Pressure ranges*: from 0 mbar...60 mbar to -1...2000 bar
- Mechanical connections*: 1/2"-14 NPT; 1/4"-18 NPT; G1/4"B Mano EN 837; G1/2"B Mano EN 837; G1/4"A Form E: 7/16 -
- Electrical connections*: M12x1 (S763); EN 175301-803-A; Cable output; Packard Metri-Pack; EN 175301-803-C
- Wetted parts*: stainless steel 1.4404 (316L)/17-4
- Response time: 1 ms max 2 ms
- **Accuracy (25°C):** ≤ 0.5 % FS after limit-point calibration
- Output: PWM Signal with 5 KHz or 500 Hz

PMP-S100-CAN

PRESSURE SENSORS SERIES WITH CAN DIGITAL OUTPUT

ADVANTAGES:

- OIL-FILLED OR STAINLESS STEEL MEASURING CELL FOR RELATIVE AND ABSOLUTE PRESSURES.
- HIGH MEDIA RESISTANCE, NO INTERNAL SEALS,
- WITHOUT WELD SEAM
- SIGNAL CONDITIONING WITH ASIC
- HIGH INTEGRATION DENSITY
- VACUUM-TIGHT AND ELASTOMER-FREE
- FLEXIBLE FOR CUSTOMISED REQUIREMENT

MAIN FEATURE:

Pressure ranges*: from 0 mbar...60 mbar to -1...2000 bar

Mechanical connections*: 1/2"-14 NPT; 1/4"-18 NPT; G1/4"B Mano EN 837;

G1/2"B Mano EN 837; G1/4"A Form E; 7/16 - 20UNF

Electrical connections*: EN 175301-803-A; M12x1 (S763); Deutsch DT04info@prignitz-mst

4P; EN 175301-803-C; Cable output

Wetted parts*: stainless steel 1.4404 (316L)/17-4

Response time: 1 ms max 2 ms

Accuracy (25°C): ≤ 0.5 % FS after limit-point calibration

Output: CANopen 2.0A or CAN J1939

*others on request. Different special custom-made solutions

PMP-C200-MOD

PRESSURE SENSORS SERIES WITH MODBUS DIGITAL OUTPUT



ADVANTAGES:

- PRESSURE TRANSDUCER FOR AN APPLICATION WITH HIGH AND VERY HIGH ACCURACY REQUIREMENTS OVER A WIDE TEMPERATURE RANGE
- HAS ESPECIALLY BEEN ADAPTED TO THE CHEMICAL AND PHYSICAL PROPERTIES OF HYDROGEN
- HIGH MEDIA RESISTANCE, NO INTERNAL SEALS,
- WITHOUT WELD SEAM
- SIGNAL CONDITIONING WITH ASIC
- HIGH INTEGRATION DENSITY
- VACUUM-TIGHT AND ELASTOMER-FREE
- FLEXIBLE FOR CUSTOMISED REQUIREMENT

MAIN FEAT

Pressure ranges*: from 0 mbar...20 mbar to -1...2000 bar Mechanical connections*: 1/2"-14 NPT; 1/4"-18 NPT; G1/4"B Mano EN 837;

G1/2"B Mano EN 837; G1/4"A Form E; 7/16 - 20UNF

Electrical connections*: M12x1(S763);Cable output; Deutsch DT04-4P

Wetted parts*: stainless steel 1.4404 (316L)/17-4

Response time*: typ 1 ms

Accuracy (25°C): ≤ 0.2 % FS after limit-point calibration

Output: RS485 MODBUS RTU

APPLICATION:



INJECTION-MOULD MACHINES



SPECIAL-PURPOSE MACHINE BUILDING

POWER PACKS

GAS INDUSTRY



HVAC





MACHINE TOOLS



AUTOMOTIVE INDUSTRY



CHEMICAL INDUSTRY



AUTOMATION ENGINEERING





INDUSTRIAL PROCESS CONTROLE











^{*}others on request. Different special custom-made solutions