

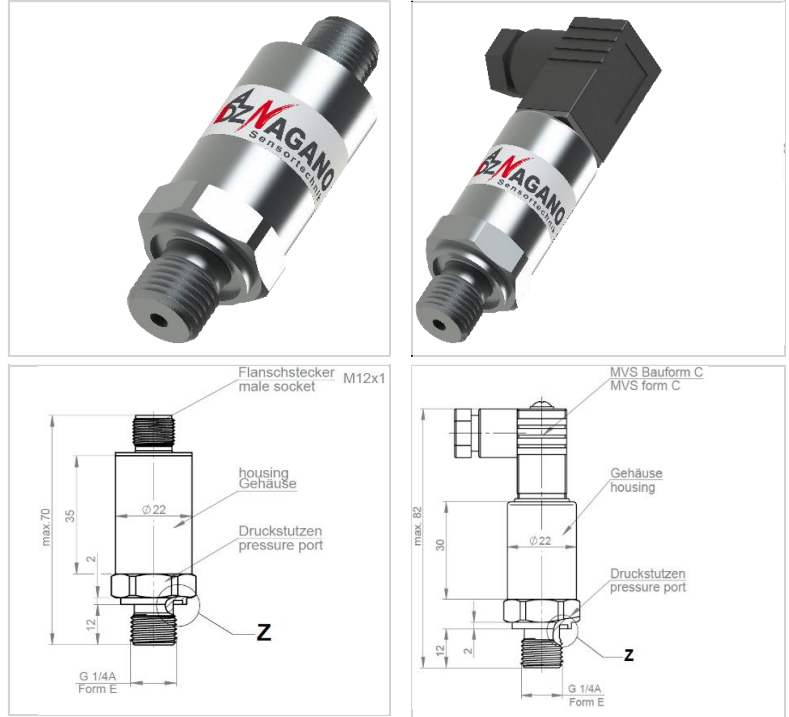
Pressure transmitter for low pressure industrial applications

Pressure transmitter for low pressure measuring ranges between vacuum and 40 bar for industrial applications and non-aggressive test media.

Typical application areas

| | |
|--|---|
| Railway | ✓ |
| Vehicle technology | ✓ |
| Trucks | |
| Construction machinery, special machines | |
| Forest -, agricultural machines | |
| Aerospace | |
| Medical technology | ✓ |
| Marine | |
| Environmental engineering | ✓ |
| Mechanical engineering and automation technology | ✓ |
| Process technology | ✓ |
| Motorsport | |

Examples



Certificates and Tests

CE-Directive 2014/30/EU, DIN EN 50155 (Railway approval)

The overview overleaf shows all adjustable parameters of this sensor. The displayed values describe the standard limit values.

Each parameter can be adjusted according to actual customer needs. The large number of parameter-specific options is compiled in detail and with examples in the following document and is available as a further download.

Do you need an individual solution?

Our strengths are the development and manufacture of the optimal solution for every customer-specific requirement. From the limitless variety of possibilities that sensor technology offers you, we will develop exactly the right one.

We produce your request 100% customized.

Give us a call or write to us ...we can do it!

Pressure transmitter for low pressure industrial applications

Basic specification

min. ... max. Values (garantiert)

min. ... max. Values guaranteed)

Pressure

Measuring range limits vacuum ... 40 bar (nominal pressure)

Over pressures (depending on upper measuring range limit) $\geq 2x$ nominal pressure

Burst pressures (depending on upper measuring range limit) $\geq 3x$ Nenndruck // nominal pressure

Operating temperature range

Medium -40 °C ... +85 °C

Ambient -40 °C ... +85 °C

compensated area -10 °C ... +70 °C

Mechanics

Shock resilience (DIN EN 60068-2-32) ... 1000 g [g: 9,81m/s²]

Vibration resilience (DIN EN 60068-2-6) ... 20 g [g: 9,81m/s²]

Shock load capacity (DIN EN 60068-2-27) ... 25 g [g: 9,81m/s²]

Material in media contact Stainless steel, silicon, NBR, PA66

Housing material Stainless steel

Process connections according to customer requirements

Electrical connections according to customer requirements

elektrische Ausgangsbelegung // Electrical output assignment nach Kundenwunsch // according to customer requirements

Weight 60 g ... 80 g

Protection classes (DIN EN 60529) ... IP69K

Status 14.12.2020

*1: including non-linearity, hysteresis, repeatability, zero point- and final value deviation (according to IEC 61298-2)

*2: Best Fit Straight Line

Electronics and electrical parameters

Output

@Pressure measurement 2-wire Current loop, voltage (non-/ratiometric), PWM, digital

@Temperature measurement

@Kraft-Messung
@Force measurement

Response time 10-90% (typical)

@Pressure measurement 1 ms ... 2 ms

@Temperature measurement

Input

Supply Depending on the output signal

Load resistance Depending on the output signal

Power consumption (typical) Depending on the output signal

Dielectric strength 30 VDC

Accuracy

Total error*1 @RT (typical) ... $\pm 1,50$ % FS

Non-linearity (BFSL*2) ... $\pm 0,25$ %

Stability / year ... $\pm 0,15$ %

Compensated area

coefficient offset ... $\pm 0,15$ %/10K

coefficient range ... $\pm 0,15$ %/10K

Outside of the compensated area

Total error*1 @lower limit temperature ... $\pm 3,00$ %

Total error*1 @upper limit temperature ... $\pm 3,00$ %