

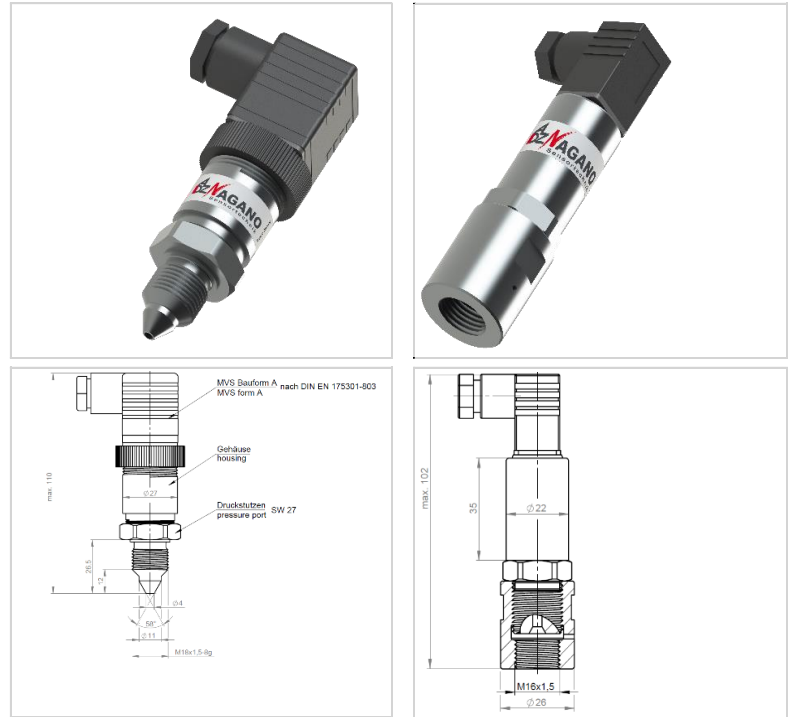
Pressure transmitter for high pressure applications

Pressure transmitter for high pressure measuring ranges between 1000 and 5000 bar.

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, DNV-GL (≤ 2000 bar), DIN EN 50155 (Railway approval), Lloyd (≤ 2000bar)

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 high pressure applications

Basic specification

	min. ... max. Values (guaranteed)
Pressure	
Measuring range limits	1000 bar ... 5000 bar nominal pressure
Over pressures (depending on upper measuring range limit)	≥1,2x nominal pressure
Burst pressures (depending on upper measuring range limit)	≥1,5x nominal pressure
Operating temperature range	
Medium	-40 °C ... +125 °C
Ambient	-40 °C ... +105 °C
compensated area	-10 °C ... +85 °C
Mechanics	
Shock resilience (DIN EN 60068-2-32)	... 1000 g [g: 9,81m/s ²]
Vibration resilience (DIN EN 60068-2-6)	... 20 g [g: 9,81m/s ²]
Shock load capacity (DIN EN 60068-2-27)	... 50 g [g: 9,81m/s ²]
Material in media contact	Stainless steel, titanium
Housing material	Stainless steel, titanium
Process connections	according to customer requirements
Electrical connections	according to customer requirements
Electrical output assignment	according to customer requirements
Weight	80 g ... 150 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

	min. ... max. Values (guaranteed)
Elektronik und elektrische Parameter	
Electronics and electrical parameters	
Output	
@Pressure measurement	2-wire Current loop, voltage (non-/ratiometric), PWM, frequency, 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 o
Load resistance	depending on the output signal
Power consumption (typical)	Depending on the o
Dielectric strength	30 VDC
Genauigkeit	
Accuracy	
Gesamtfehler*1 @RT (typisch)	... ±0,50 % FS (≤2000 bar)
Total error*1 @RT (typical)	... ±1,00 % FS (>2000 bar)
Non-linearity (BFSL*2)	... ±0,15 % FS (≤2000 bar) ... ±0,30 % FS (>2000 bar)
Stability / year	... ±0,15 % FS (≤2000 bar) ... ±0,20 % FS (>2000 bar)
Compensated area	
mean temperature coefficient offset	... ±0,15 %/10K
mean temperature coefficient range	... ±0,15 %/10K
Außerhalb kompensierter Bereich	
Outside of the compensated area	
Total error*1 @lower limit temperature	... ±2,00 %
Total error*1 @upper limit temperature	... ±2,00 %