

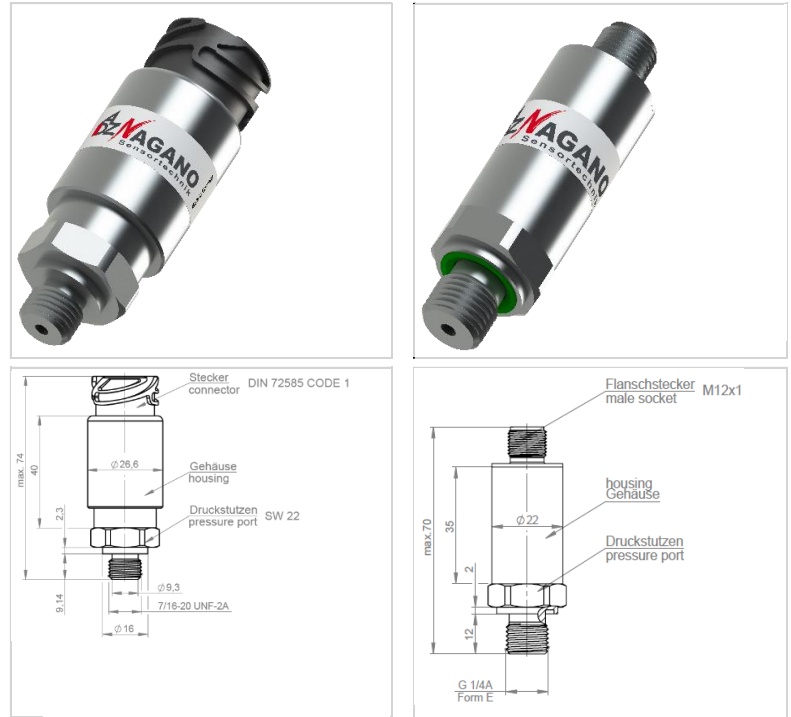
Pressure transmitter with CAN signal output

Pressure transmitter for all pressure measuring ranges within the limits between vacuum and 5000 bar with CANopen or J1939 protocol.

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	
Motorsport	

Examples



Certificates and Tests

CE -Directive 2014/30/EU

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 with CAN signal output

Basic specification

min. ... max. Values (guaranteed)

min. ... max. Values (guaranteed)

Pressure

Measuring range limits	Vacuum ... 5000 bar (nominal pressure)
Over pressures (depending on upper measuring range limit)	<500 bar: $\geq 2x$ Nominal pressure; 500-700 bar: $\geq 1,5x$ Nominal pressure; >700 bar: $\geq 1,2x$ Nominal pressure;(others possible)

Burst pressures (depending on upper measuring range limit)	<500 bar: $\geq 3x$ nominal pressure; 500-700 bar: $\geq 2x$ nominal pressure; >700 bar: $\geq 1,5$ nominal pressure;(others possible)
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Operating temperature range

Medium	-40 °C ... +125 °C
Ambient	-40 °C ... +105 °C
compensated area	-20 °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, silicon

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 ... 120 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: CAN interface: ISO 11898
CAN protocol: CANopen, SAE J1939

@Temperature measurement

@Force measurement

Response time 10-90% (typical)

@Pressure measurement: 1 ms ... 2 ms

@Temperature measurement

Input

Supply: 10 V ... 32V

Load resistance

Power consumption (typical): 30 mA

Dielectric strength: 30 VDC

Accuracy

Total error*1 @RT (typical): ... $\pm 0,50$ % FS (≤ 2000 bar)
... $\pm 1,00$ % FS (> 2000 bar)

Non-linearity (BFSL*2): ... $\pm 0,15$ % FS (≤ 2000 bar)
... $\pm 0,30$ % FS (> 2000 bar)

Stabilität / Jahr: ... $\pm 0,15$ % FS (≤ 2000 bar)

Stability / year: ... $\pm 0,20$ % FS (> 2000 bar)

Compensated area

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

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

Outside of the compensated area

Total error*1 @lower limit temperature: ... $\pm 2,00$ %

Total error*1 @upper limit temperature: ... $\pm 2,00$ %