SML

general information

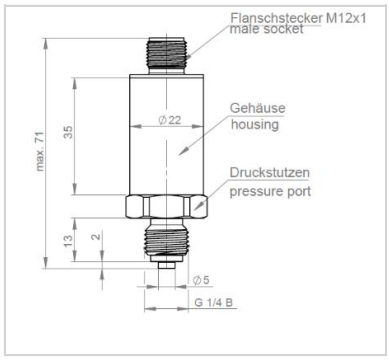
Pressure transmitter for general industrial applications

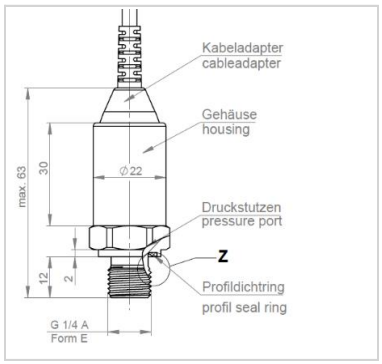
Anwendungen. *Pressure transmitter for all pressure measuring ranges between vacuum and 1000 bar for general industrial applications.*

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

Lloyd (GL) , CE-Directive 2014/30/EU, ECE-R110 (Approval for drive systems with compressed natural gas), 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!

ADZ NAGANO Sensortechnik

SML

general information

Pressure transmitter for general industrial applications

Basic specification

	min. ... max. *Values (guaranteed)*
Pressure	
Measuring range limits	Vacuum ... 1000 bar (nominal pressure)
Over pressures (depending on upper measuring range limit)	<500 bar: ≥2x nominal pressure; 500-700 bar: ≥1,5x nominal pressure; >700 bar: ≥1,2x nominal pressure;(others possible)
Burst pressures (depending on upper measuring range limit)	<500 bar: ≥3x nominal pressure; 500-700 bar: ≥2x nominal pressure; >700 bar: ≥1,5x nominal pressure;(others possible)
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/s²]
Vibrationsbelastbarkeit *Vibration resilience* (DIN EN 60068-2-6)	... 20 g [g: 9,81m/s²]
Shock load capacity (DIN EN 60068-2-27)	... 50 g [g: 9,81m/s²]
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 ... 120 g
Protection classes (DIN EN 60529)	... IP69K
Status	16.11.2020

**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)*
Electronics and electrical parameters	
Output	
@Pressure measurement	2-wire Current loop, voltage (non-/ratiometric), PWM, frequency, digital
@Temperature measurement	
@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 ... 500 VAC / 710 VDC (at request)
Accuracy	
*Total error*1 @RT (typical)*	... ±0,50 % FS
*Non-linearity (BFSL*2)*	... ±0,15 %
Stability / year	... ±0,15 %
Compensated area	
mean temperature coefficient offset	... ±0,15 %/10K
mean temperature coefficient range	... ±0,15 %/10K
Outside of the compensated area	
*Total error*1 @lower limit temperature*	... ±2,00 %
*Total error*1 @upper limit temperature*	... ±2,00 %