

Pressure transmitter with Bluetooth interface

Pressure transmitter for all pressure measuring ranges between vacuum and 5000 bar for applications with Bluetooth interface.

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 ✓

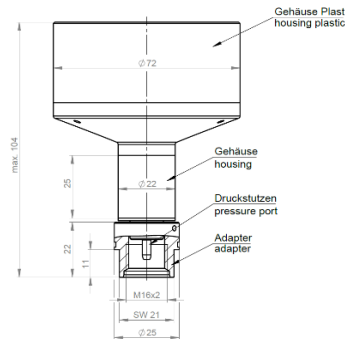
Process technology ✓

Motorsport ✓

Examples



Draft



Draft

Certificates and Tests

in processing

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 Bluetooth interface

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)	500-700 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)

Operating temperature range

Medium	-20 °C ... +85 °C
Ambient	-20 °C ... +85 °C
compensated area	-20 °C ... +85 °C

Mechanics

Shock resilience (DIN EN 60068-2-32)	in processing
Vibration resilience (DIN EN 60068-2-6)	in processing
Shock load capacity (DIN EN 60068-2-27)	in processing
Material in media contact	Stainless steel, titanium, silicon

Housing material	Stainless steel, titanium
------------------	---------------------------

Process connections	according to customer requirements
---------------------	------------------------------------

Electrical connections

Electrical output assignment	Bluetooth Low Energy 5.2
------------------------------	--------------------------

Weight	~ 200 g
--------	---------

Protection classes (DIN EN 60529)	... IP69K
--------------------------------------	-----------

Status	11.12.2020
--------	------------

*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	Bluetooth Low Energy 5.2
-----------------------	--------------------------

@Temperature measurement	
--------------------------	--

@Force measurement	
--------------------	--

Response time 10-90% (typical)

@Druck-Messung @Pressure measurement	einstellbar // adjustable
---	---------------------------

@Temperature measurement	
--------------------------	--

Input

Supply	
--------	--

Load resistance	
-----------------	--

Power consumption (typical)	
-----------------------------	--

Spannungsfestigkeit Dielectric strength	
--	--

Accuracy

Total error*1 @RT (typical)	$\pm 1,00$ % FS
-----------------------------	-----------------

Non-linearity (BFSL*2)	$\pm 0,15$ % FS
------------------------	-----------------

Stability / year	$\pm 0,15$ % FS
------------------	-----------------

Compensated area

mean temperature coefficient offset	$\pm 0,25$ % FS
--	-----------------

mean temperature coefficient range	$\pm 0,25$ % FS
---------------------------------------	-----------------

Outside of the compensated area

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

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