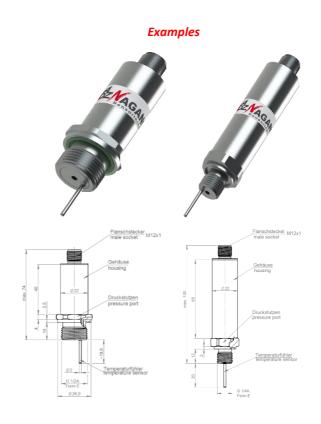
TPSE

Combined pressure and temperature transmitter with external temperature sensor

Combined pressure and temperature transmitter with external temperature sensor and for all pressure measuring ranges in the limits between vacuum and 600 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	✓



Certificates and Tests

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?

CE-Directive 2014/30/EU

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!



Combined pressure and temperature transmitter with external temperature sensor

Basic specification

	min max. Values (guaranteed)	min max. Values (guaranteed) Electronics and electrical parameters		
Pressure Measuring range limits Over pressures (depending on	vacuum 600 bar (nominal pressure)	Output @Pressure measurement 2-	wire Current loop, voltage (non-/ratiometric), digital	
upper measuring range limit)	≥1,2x nominal pressure			
Burst pressures (depending on upper measuring range limit)	≥1,5x nominal pressure @T	emperature measurement 2-wire Curre	nt loop, voltage (non-/ratiometric), digital; PT100, PT1000	
Temperatur-Einsatzberei Operating temperature r		@Force measurement		
Medium	-40 °C +125 °C	Response time 10-90% (typical)		
Ambient	-40 °C +105 °C	@Pressure measurement	1 ms 2 ms	
compensated area	-20 °C +85 °C	@Temperature measurement	2 s 60 s	
		Input		
Mechanics		Supply	Depending on the o	utp
Shock resilience (DIN EN 60068-2-32)	1000 g [g: 9,81m/s²]	Load resistance	Depending on the output signal	
Vibration resilience	20 g [g: 9,81m/s²]	Power consumption (typical)	Depending on the o	
(DIN EN 60068-2-6)	10 P [9: 2)011113 1	Dielectric strength	30 VDC	
Shock load capacity (DIN EN 60068-2-27)	50 g [g: 9,81m/s²]	Accuracy		
Material in media contact	Stainless steel	Total error*1 @RT (typical)	±0,50 % FS	
Housing material	Stainless steel	Nichtlinearität (BFSL*2) Non-linearity (BFSL*2)	±0,15 % FS	
Process connections	according to customer requirements	Stability / year	±0,15 % FS	
Electrical connections	according to customer requirements	Compensated area		
Electrical output assignment	according to customer requirements	mean temperature coefficient offset	±0,15 %/10K	
Weight	≥ 120 g			
Protection classes (DIN EN 60529)	IР69К	mean temperature coefficient range	±0,15 %/10K	
Status	14.12.2020	Außerhalb kompensierter Bereich Outside of the compensated area		
*1: including non-linearity, hysteresis, repeatability, zero point- and final value deviation (according to IEC 61298-2)		Total error*1 @lower limit temperature	±2,00 %	
*2: Best Fit Straight Line		Total error*1 @upper limit temperature	±2,00 %	