

ePressure V2.1

Pressure Sensor

- Optimisation for dynamic measurements
- Compact design
- Frequency resolution of up to 1 kHz
- IP67



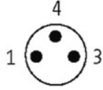
General Description

Pressure sensors of the *ePressure* series are especially optimized to perform dynamic measurements. Due to the low dead volume inside the housing frequency resolutions of up to 1 kHz are possible. Thanks to the compact design the sensors can be placed close to the measurement location, thus reducing spectral damping caused by long tube lines.

ePressure pressure sensors of the version 2.1 have a wide range input of 8 to 30 VDC. For best measurement results high frequency interferences in the power supply should be avoided.

The pressure transducers feature a differential pressure input. They are available in uni- and bidirectional design.

Technical Specifications

Pressure range			
Unidirectional, 0 to	250 Pa 1.25kPa 2.5kPa 5kPa 7.5kPa		
Bidirectional, ±	125 Pa 250 Pa 1.25kPa 2.5kPa 5kPa 7.5kPa		
Safe pressure range	25 kPa		
Burst pressure	50 kPa		
Signal			
Nonlinear & hysteresis	0.25% max		
Signal delay	0.5 ms		
Unidirectional	0.25...4.25 V		
Bidirectional	2.25 ± 2 V		
Connections			
connector	M8, 3 pin, male		Standard sensor cable
Pin assignment/cable colour 	Pin 1	Supply 8-30 VDC	brown
	Pin 3	Ground	blue
	Pin 4	Signal	black
Pressure	Hose barb d = 2 mm		

Ambient conditions	
Temperature	5° C...50° C compensated / -25°C ... 85°C
Order options	
Bidirectional / unidirectional, pressure range	
Dimensions	
Length	47 mm casing, 65 mm overall
Width	24 mm
height	13 mm