



SERIES 2066.41XX – ANALOG PRESSURE SENSOR

MEASURING LIQUID AND GAS PRESSURE



ADVANTAGE

- High measurement accuracy
- ESD protection
- Long lifetime
- Linear output signal
- Numerous versions

PRODUCT FEATURES

- Low hysteresis, 100%-final test with linearization and calibration
- ESD EN 61000-4-2 with contact discharge of 8 kV and 8 kV air discharge
- More than 150,000 pressure cycles, useful life of more than 15 years
- Analogue voltage output signal (1,125 V - 3,6 V / 0 - 4,5 bar)
- Different versions available regarding measuring range, output signal, supply voltage, mechanical and electrical connection

EXAMPLES OF APPLICATION

- HVAC technology
- Heat pumps
- Solar thermal systems
- Controlled pumps and valves
- Large household appliances
- Level measuring



Medium	Heating water, water, air
Measuring range	0 ... 450 kPa / 4,5 bar / 65 psi
Burst pressure	> 0,9 MPa / 9 bar / 130 psi
Characteristic / Tolerance* at Vcc = 5,00 V DC	
→ Upper tolerance limit	Uout [V] = 0,55 [V/bar] x applied pressure [bar] + 1,235 [V]
→ Ideal characteristic	Uout [V] = 0,55 [V/bar] x applied pressure [bar] + 1,125 [V]
→ Lower tolerance limit	Uout [V] = 0,55 [V/bar] x applied pressure [bar] + 1,015 [V]
*The tolerance value includes a temperature influence of 0.01 % FS/K for the medium temperature	
→ Material housing	Grivory (glass fibre reinforced)
→ Material membrane	EPDM
Medium temperatur (water)	+2 °C ... +90 °C (max. 120 °C for 10 min above lifetime)
Ambient temperature	-10 °C ... +70 °C
Storage temperature	-40 °C ... +70 °C
Supply voltage	5 V DC ± 0.25 V (ratiometric)
Maximum power consumption	< 14 mA (12 mA typ)
Output signal	Proportional analog voltage
→ at 0 bar	→ 1,125 V
→ at 4,5 bar	→ 3,6 V
Terminal	Rast 2.5; 4-pole ; for increased ESD-protection unused programming pin required



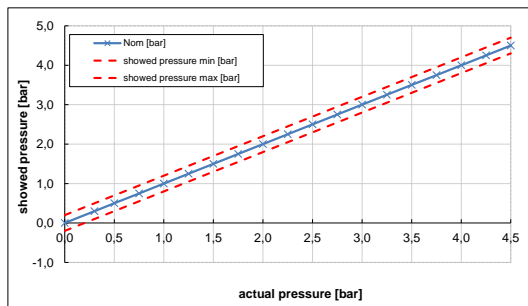
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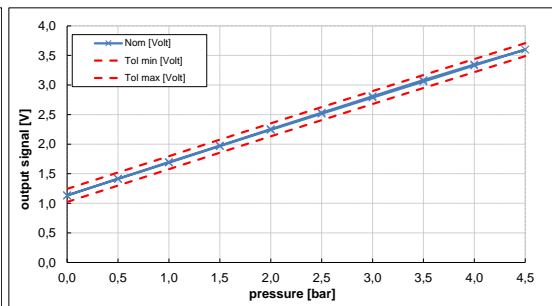
VARIANTS

Product number	Supply voltage	Ratiometric	Voltage-controlled	Pressure range	Burst pressure	O-ring sealed	3-pole (RaSt 2.5)	4-pole (RaSt 2.5)	Plug-on flanges	Screw flange G3/8"	Output signal Uout
2066.4111	5 V DC $\pm 0,25$ V	●		0...4,5 bar	9 bar	●		●	●		0.55 V x p + 1.125 V
2066.4112	5 V DC $\pm 0,25$ V	●		0...4,5 bar	9 bar			●	●		0.55 V x p + 1.125 V

CHARACTERISTIC CURVES



Nominal characteristic curve
2066.4111 / 2066.4112



Typical sensor characteristic curve
2066.4111 / 2066.4112

DRAWINGS

(Dimensions in mm)

