

CCA-210



- pressure transducer for pure media measuring
- measuring range from $-1 \div 0$ bar to $0 \div 16$ bar
- 4-20 mA output signal
- medium temperature up to 125°C (direct measurement)
- no internal transmission medium
- piezoresistive sensor structure
- diaphragm and housing made of CrNi stainless steel (fully hermetic)
- thin-film mounting technology: Poly-Si on SiO₂
- high resistance to shock / vibration
- high resistance to temperature changes and pressure fluctuations

MAIN APPLICATIONS

Pressure measurement, among others, in:

- district heating, power engineering, and water supply systems,
- hydraulics and pneumatics,
- industrial robots,
- water and wastewater management,
- air conditioning and heating systems,
- test and control stations.

Level measurement in open tanks.

The CCA-210 transducer is designed for measuring the pressure of pure, non-aggressive media. It contains a minimal number of active components, such as a sensor, an ASIC signal processing module, or optionally a U/I converter. The transducer undergoes electronic calibration, resulting in a low total error.

The hermetically welded measuring cell ensures long-term tightness and stable operation. Thanks to its stainless steel diaphragm and thin-film semiconductor technology, the transducer offers excellent properties that make it suitable for most industrial applications. For pressure measurement of media above 125°C, a 150mm impulse tube should be used to reduce the medium temperature.

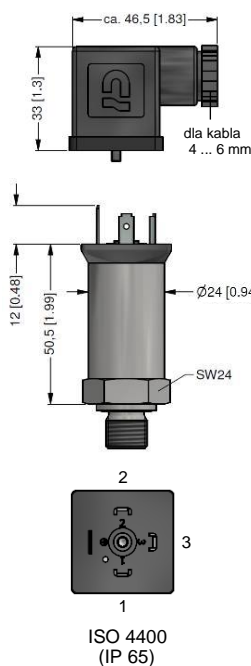
The transducer is equipped with an overvoltage protection circuit.

TECHNICAL DATA

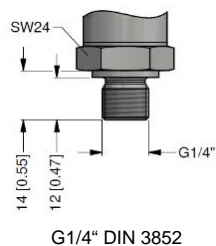
Power supply	8...32V DC
Measuring range	-1...0 bar, 0...1 bar, 0...2,5 bar, 0...6 bar, 0...10 bar, 0...16 bar
Overpressure	maximum safe: 300% of span; burst pressure: 500% of span
Output signal	4...20 mA (2-wire)
Accuracy	0,5% of span ($P_N > 160$ mbar); 1% of span ($P_N \leq 160$ mbar)
Error due to	supply changes: 0,05% / 10V; load changes: 0,05% / k
Response time	10 ms
Long term stability	$\pm 0,2\%$ / 1 year at reference conditions
Thermal error	$\pm 0,3\%$ of span / 10 K
Measuring rate	1 kHz
Permissible temperatures	<u>electronics / environment</u> : -25°C...+85°C <u>medium</u> : -25°C...+125°C <u>storage</u> : -40°C...+85°C
Materials	<u>case</u> : stainless steel 1.4301 (304) <u>diaphragm</u> : stainless steel 1.4435 (316L); FKM seal; without silicon oil
Protection class	IP 65
Case dimensions	$\varnothing 24 \times 83,5$ mm

CONNECTIONS

Electric connection:



Mechanical connection:



ORDERING

CCA-210/X...X/A/G1/4"

End of measuring range in relation to end of output signal 20 mA

Start of measuring range in relation to start of output signal 4 mA

WIRING DIAGRAMS

