

## CCA-200

- ▣ pressure transmitter
- ▣ range from  $-1 \div 0$  bar up to  $0 \div 16$  bar
- ▣ medium temp. up to  $125^{\circ}\text{C}$  (direct measurement)
- ▣ for pure media
- ▣ piezo-resistive, vacuum-proof construction



The **CCA-200** pressure transmitter is applicable to the pressure measurement of pure, not aggressive media. Contains only a small number of active components, such as: the sensor element, a signal processing ASIC and a U/I converter circuit. Calibration takes place electronically, so that the pressure transmitters display a comparably small total error and are stable in a long term. The hermetically welded thin film measuring cell ensures a high degree of longterm resistance to leakage and stability. The special steel membrane is completely vacuum-tight, extremely burst-proof and can be used with all standard media, in standard applications in mobile hydraulics and in other areas of application.

In case of measurement the medium above  $125^{\circ}\text{C}$ , an impulse line of length 150 mm, which lowers the temperature of the medium, should be used.

The transmitter is equipped with a protection system against voltage surges.

- stainless steel CrNi membrane and case (full vacuum-tight),
- Poli-Si on  $\text{SiO}_2$  (thin film resistances),
- 4-20 mA two-wire output,
- high resistance to shock and vibration,
- high resistance to temperature changes and pressure peaks,
- complete measurement systems in conjunction with the indicators or controllers with the current input (section 1.2).

### Typical applications

Measurement of pressure in:

- hydraulic and pneumatic systems,
- air conditioning + heating,
- testing technology,
- industrial robots,
- process control,
- water technology.

Level measurement in open tanks.

### Ordering

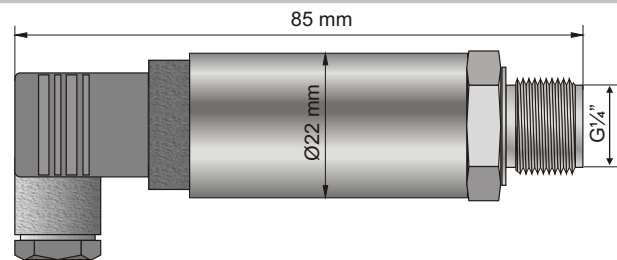
CCA-200/X - X/C/G $\frac{1}{4}$ "

#### measuring range

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

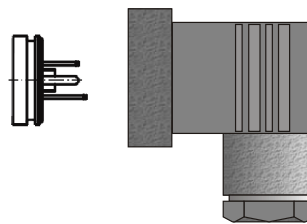
start of measuring range in relation to start of output signal 4 mA

### Dimensions

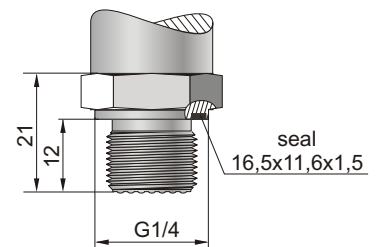


### Types of connections

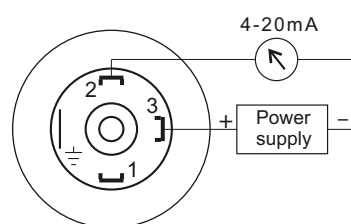
#### Electrical connection:



#### Process connection:



### Electrical diagram



Example of connection for 4-20 mA two wire transmission version

### Technical data

**Power supply:** 12 - 30V DC for 4 - 20 mA signal

**Available measuring ranges:**  $-1 \div 0$  bar,  $0 \div 1$  bar,  $0 \div 2,5$  bar,  $0 \div 6$  bar,  $0 \div 10$  bar,  $0 \div 16$  bar

**Overpressure limit:** tolerated - 1,5 x range; damaging overpressure - 3 x range

**Accuracy:**  $< 0,5\%$  range

**Nonlinearity:**  $< 0,5\%$  range (in RT)

**Repeatability:**  $< 0,1\%$  range

**Total error:** 2,0%

**Output signal:** 4 - 20 mA (two wire transmission)

**Response time (10...90%):**  $< 1$  ms

**Insulating resistance at 50 V:**  $\geq 100$  M $\Omega$

**Protection class:** IP 65

**Thermal compensation and operating temperature range (ambient):**  $-40^{\circ}\text{C} \div 105^{\circ}\text{C}$

**Medium temperature range:**  $-40^{\circ}\text{C} \div 125^{\circ}\text{C}$  (direct measurement); over  $125^{\circ}\text{C}$ : measurement with the use of impulse line

**Material of parts with contact to measuring medium:** stainless steel CrNiCuNb 17-4 PH, no o-ring, no silicone oil

**Material of the casing:** stainless steel X5CrNi18-10

**Wight:** 90 g