



La solution à votre mesure



## PRESSURE AND LEVEL SENSORS / TRANSMITTERS



Measure,  
**Control** and Log Data

**/ Process**



## APPLICATIONS

- hydraulics
- pneumatics
- process engineering and process monitoring
- control systems
- tool/press/machine design, injection molds
- power supply and energy distribution



## PRESSURE TRANSMITTERS - P. 4

**Transducers for measuring overpressure, underpressure and absolute pressure**  
*Ranges from 0 ... 6 mbar up to 0 ... 6 000 bar*

The modular concept of these devices allows to combine different stainless steel or ceramic sensors and electronic modules with a variety of electrical and mechanical versions.

Thanks a diversity of variations of these sensors are able to meet almost all requirements in industrial applications. These transmitters can be used in all industrial areas.



## DIFFERENTIAL PRESSURE TRANSMITTERS - P. 12

**Pressure transmitters for measuring two different pressures and subtract one from the other**  
*Ranges from 0 ... 1.6 mbar up to 0 ... 70 bar*

Various types of transmitters combined with a stainless steel or silicon sensor enable the use in process industry for many applications, involving liquids or gases. The wide range of possible uses of these sensors includes monitoring in ventilation pipelines, filters, fans in the field of heating, ventilation or air conditioning systems, and level measurements in closed pressure vessels, pump or filter controlling, etc.



## DIGITAL GAUGES - P. 15

**A new generation of digital battery pressure gauges for most applications, a large selection of mechanical and electrical connections**  
*Ranges from 100 mbar up to 600 bar*

Due to the two sensor technologies in use (stainless steel or ceramic sensor), our digital pressure gauges are suitable for nearly all fluids, pasty media and gases. The display module is continuously rotatable, so that a clear readability is guaranteed even in unusual installation positions. Min./max. function with reset, offset and end point calibration, setting the pressure unit and automatic switch-off configuration via display buttons.

## Pressure transmitters

### CCA-200

- ✓ stainless steel sensor for measurement of pure, not aggressive media
- ✓ high resistance to shocks, vibrations, temperature and pressure changes
- ✓ hydraulic and pneumatic systems, HVAC, testing technology, process control, water technology, level measurement in open tanks



|                       | CCA-200                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...1 bar up to 0...16 bar                                                                                                                                                                                                                                                                                              |
| Accuracy              | 0.5 % FSO                                                                                                                                                                                                                                                                                                                                |
| Mechanical connection | thread G1/4"                                                                                                                                                                                                                                                                                                                             |
| Output signal         | 4...20 mA (2-wire)                                                                                                                                                                                                                                                                                                                       |
| Diaphragm             | stainless steel 1.4542                                                                                                                                                                                                                                                                                                                   |
| Areas of application  |     |
| Preferred media       |                                                                                                                                                                        |

### CCA-300

- ✓ universal stainless steel sensor
- ✓ various process connections for pressure measurement of almost all types of media
- ✓ various certificates and options to extend the application
- ✓ for hydraulic installations



|                       | CCA-300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | 2.5 kPa...100 MPa (overpressure, underpressure); 40 kPa...8 MPa (absolute pressure)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Accuracy              | 0.6 / 0.3 / 0.2 % FSO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mechanical connection | threads G1/4"; G1/2"; M20x1,5; M30x2; 1/2 NPT; with flush sensor diaphragm; with impulse line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Diaphragm             | stainless steel 316L, Hastelloy (option)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Options               | PED, marine certificate, for oxygen service, intrinsic safety certificate, SIL 1 certificate, Hastelloy, NACE MR-01-75 certificate, 0...10V DC output                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Areas of application  |                                                                                                                                                                                 |
| Preferred media       |        |

### CCA-310

- ✓ stainless steel sensor
- ✓ for pressure measurement in hydraulic installations
- ✓ also for contaminated and viscous media



|                       | CCA-310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | 2.5 kPa...40 MPa (overpressure, underpressure); 40 kPa...8 MPa (absolute pressure)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Accuracy              | 0.6 / 0.3 / 0.16 % FSO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mechanical connection | threads G1/2"; M20x1,5; with impulse line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Output signal         | 4...20 mA (2-wire), 0...10V / 0...20 mA (3-wire)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Diaphragm             | stainless steel 316L, Hastelloy (option)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Options               | for oxygen service, Hastelloy diaphragm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Areas of application  |                                                                                                                                                                                 |
| Preferred media       |        |

## CCA-P-331

- ✓ stainless steel sensor for low pressure
- ✓ perfect thermal behaviour, excellent long term stability
- ✓ plant and machine engineering, environmental engineering, power engineering



|                       | CCA-P-331                                                                                                                                                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...100 mbar up to 0...40 bar                                                                                                                                                                                                                                                                                           |
| Accuracy              | 0.5 / 0.35 / 0.25 / 0.1 % FSO                                                                                                                                                                                                                                                                                                            |
| Mechanical connection | threads G1/2"; G1/4"; G1/2"; with flush sensor diaphragm; G1/2" open port; 1/2 NPT; 1/4 NPT; M20x1,5; others                                                                                                                                                                                                                             |
| Output signal         | 4...20 mA (2-wire), 0...20 mA / 0...10V (3-wire)                                                                                                                                                                                                                                                                                         |
| Diaphragm             | stainless steel 316 L                                                                                                                                                                                                                                                                                                                    |
| Options               | field housing; welded version, without seals; various compensation temperatures; various seal types, also for drinking water, IP 67, IP 68                                                                                                                                                                                               |
| Areas of application  |     |



## CCA-P-331i / CCA-P-331i-RS

- ✓ precision stainless steel sensor
- ✓ various types of process connections
- ✓ communication interface for adjusting of offset, span and damping
- ✓ power engineering, laboratories



|                       | CCA-P-331i                                                                                                                                                              | CCA-P-331i-RS                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Nominal pressure      | from -0,4...0,4 bar up to -1...10 bar, from 0...400 mbar up to 0...40 bar                                                                                               |                                                                                   |
| Accuracy              | 0.1% / 0.2% FSO                                                                                                                                                         |                                                                                   |
| Mechanical connection | threads G1/2"; G1/4"; M20x1.5; M12x1; 1/2 NPT; 1/4 NPT                                                                                                                  | threads G1/2"; G1/4"; M20x1.5; M12x1                                              |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                    | digital RS-485 / Modbus RTU or HART                                               |
| Diaphragm             | stainless steel 316 L                                                                                                                                                   |                                                                                   |
| Options               | field housing; welded version, without seals; various compensation temperatures; various seal types                                                                     | welded version, without seals; various compensation temperatures and power supply |
| Areas of application  |   |                                                                                   |



## CCA-P-331P / CCA-P-331Pi

- ✓ hygienic version precision stainless steel sensor
- ✓ CIP / SIP cleaning up to 150°C
- ✓ food, pharmaceutical and medical industries



|                       | CCA-P-331P                                                                                                                                                                                                                                                  | CCA-P-331Pi                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...100 mbar up to 0...40 bar                                                                                                                                                                                                              | from -0,4...0,4 bar up to -1...10 bar, 0...400 mbar to 0...40 bar |
| Accuracy              | 1% / 0.5% / 0.25% / 0.35% FSO                                                                                                                                                                                                                               | 0.1% / 0.2% FSO                                                   |
| Mechanical connection | threads G1/2", G3/4", G1", G1 1/2", G2"; with flush sensor diaphragm, Varivent, clamp, flange, dairy pipe                                                                                                                                                   |                                                                   |
| Output signal         | 4...20 mA (2-wire), 0...20 mA / 4...20 mA / 0...5V / 0...10V (3-wire)                                                                                                                                                                                       | 4...20 mA (2-wire), 0...10V (3-wire)                              |
| Diaphragm             | stainless steel 316 L, Hastelloy® or tantal (option)                                                                                                                                                                                                        |                                                                   |
| Options               | field housing; cooling element for temp. up to 300°C; various seal types, also version without seals; filling fluids for foodstuff industry, silicone oil or halon, IP 67, IP 68                                                                            |                                                                   |
| Areas of application  |    |                                                                   |



## CCA-P-333

- ✓ stainless steel sensor for high pressure
- ✓ high long-term stability (also under dynamic loads)
- ✓ high resistance to pressure surges and heavy overloads
- ✓ mechanical and environmental engineering, mobile hydraulics



|                       | CCA-P-333                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...60 bar up to 0...600 bar                                                                                                                                   |
| Accuracy              | 0.5% / 0.35% / 0.25% / 0.2% / 0.1% FSO                                                                                                                              |
| Mechanical connection | threads G1/2"; G1/4"; 1/2 NPT; M20x1.5; M10x1; 1/2 NPT; 1/4 NPT and others                                                                                          |
| Output signal         | 4...20 mA (2-wire); 0...20 mA / 4...20 mA / 0...10V / 0...5V / 0...1V / 1...6V (3-wire)                                                                             |
| Diaphragm             | stainless steel 316 L                                                                                                                                               |
| Options               | field housing; welded version, without seals; various compensation temperatures; various seal types                                                                 |
| Areas of application  |   |



## CCA-P-333i / CCA-P-333i-RS

- ✓ precision stainless steel sensor
- ✓ various types of process connections
- ✓ communication interface for adjusting of offset, span and damping
- ✓ power engineering, laboratories



|                       | CCA-P-333i                                                                                                                                                              | CCA-P-333i-RS                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Nominal pressure      | from 0...60 bar up to 0...600 bar                                                                                                                                       | from 0...60 bar up to 0...600 bar                                                 |
| Accuracy              | 0.1% / 0.2% FSO                                                                                                                                                         | 0.1% FSO                                                                          |
| Mechanical connection | threads G1/2"; G1/4"; M20x1.5; M12x1; 1/2 NPT; 1/4 NPT                                                                                                                  | threads G1/2"; G1/4"; M20x1.5; M12x1                                              |
| Output signal         | 4...20 mA (2-wire)                                                                                                                                                      | digital RS-485 / Modbus RTU or HART                                               |
| Diaphragm             | stainless steel 316 L                                                                                                                                                   |                                                                                   |
| Options               | field housing; welded version, without seals; various seal types; RS-232 interface                                                                                      | welded version, without seals; various compensation temperatures and power supply |
| Areas of application  |   |                                                                                   |



## CCA-P-334 / CCA-P-334i

- ✓ thinfilm, welded pressure sensor
- ✓ for very high pressure
- ✓ extremely robust and excellent long-term stability
- ✓ mechanical and environmental engineering, mobile hydraulics



|                       | CCA-P-334                                                                                                                                                               | CCA-P-334i                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Nominal pressure      | from 0...600 bar up to 0...2200 bar                                                                                                                                     |                                                |
| Accuracy              | 0.35% FSO                                                                                                                                                               | 0.1% FSO                                       |
| Mechanical connection | threads G1/2"; G1/4"; internal: M20x1.5, M16x1.5; 9/16" UNF                                                                                                             | threads G1/2"; internal: M20x1.5, 9/16" UNF    |
| Output signal         | stainless steel 1.4542 (17-4PH)                                                                                                                                         |                                                |
| Diaphragm             | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                    | 4...20 mA (2-wire)                             |
| Options               | field housing; IP 67; IP 68                                                                                                                                             | version without seals; RS-232 interface; IP 67 |
| Areas of application  |   |                                                |



## CCA-P-343

- ✓ stainless steel sensor for very low gauge pressure and vacuum applications
- ✓ excellent linearity and thermal properties
- ✓ high long-term stability
- ✓ HVAC, mechanical and environmental engineering



|                       | CCA-P-343                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from -1 ... 0 bar, from 0 ... 10 mbar up to 0 ... 1000 mbar                                                                                                                                       |
| Accuracy              | 0.35% / 0.5% FSO                                                                                                                                                                                  |
| Mechanical connection | threads G1/2", G1/4", 1/2 NPT, 1/4 NPT, M20x1.5 and others                                                                                                                                        |
| Output signal         | 4...20 mA (2-wire); 0...20 mA / 0...10V (3-wire)                                                                                                                                                  |
| Diaphragm             | stainless steel 316 L                                                                                                                                                                             |
| Options               | field housing; IP 67; IP 68                                                                                                                                                                       |
| Areas of application  |                                 |
| Preferred media       |   non-aggressive, low viscosity |



## CCA-K-331

- ✓ ceramic sensor
- ✓ designed for contaminated, aggressive media and oxygen applications
- ✓ mechanical and environmental engineering, energy, medical technology, environmental protection



|                       | CCA-K-331                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...400 mbar up to 0...600 bar                                                                                                                                                                                                                                                                                                  |
| Accuracy              | 0.5% / 1% FSO                                                                                                                                                                                                                                                                                                                                    |
| Mechanical connection | G1/2"; G1/4"; 1/2 NPT; 1/4 NPT; G1/2" with flush sensor diaphragm, G1/2" open port                                                                                                                                                                                                                                                               |
| Output signal         | 4...20 mA (2-wire); 0...20 mA / 0...10V / 0...5V / 0...1V / 1...6V (3-wire)                                                                                                                                                                                                                                                                      |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                                                                                                                    |
| Options               | field housing; oxygen applications; PVDF G1/2" open port                                                                                                                                                                                                                                                                                         |
| Areas of application  |     |
| Preferred media       |     |



## CCA-K-331P

- ✓ pressure ports with flush welded stainless steel diaphragm
- ✓ food compatible filling fluid with FDA approval
- ✓ mechanical and environmental engineering, food industry



|                       | CCA-K-331P                                                                                                                                                              |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...60 bar up to 0...400 bar                                                                                                                                       |
| Accuracy              | 1% / 0.5% FSO                                                                                                                                                           |
| Mechanical connection | with flush sensor diaphragm: G1 1/2", G1/2", G3/4", G1", M20x1,5                                                                                                        |
| Output signal         | stainless steel 316 L                                                                                                                                                   |
| Diaphragm             | 4...20 mA (2-wire); 4...20 mA / 0...20 mA / 0...10V / 0...5V (3-wire)                                                                                                   |
| Options               | field housing, cooling element for media temperatures up to 300°C, food compatible filling fluid (FDA approval)                                                         |
| Areas of application  |   |
| Preferred media       |   |



## CCA-K-351

- ✓ ceramic sensor
- ✓ high overpressure resistance, high temperature and media resistance
- ✓ mechanical and environmental engineering, laboratory techniques, biogas plants



|                       | CCA-K-351                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...40 mbar up to 0...20 bar                                                                                                                                                                                                                     |
| Accuracy              | 1% / 0.5% / 0.35% / 0.25% FSO                                                                                                                                                                                                                         |
| Mechanical connection | G1/2"; G1/4"; 1/2 NPT; M20x1.5; G1/2" open port                                                                                                                                                                                                       |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                                                                                                  |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> or 99,9% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                 |
| Options               | field housing; connection material PP or PVDF; IP 67; IP 68                                                                                                                                                                                           |
| Areas of application  |    |
| Preferred media       |    |



## CCA-K-351P

- ✓ ceramic sensor
- ✓ hygienic version
- ✓ high overpressure resistance, high temperature and media resistance
- ✓ food, chemical and pharmaceutical industries



|                       | CCA-K-351P                                                                                                                                                              |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...40 mbar up to 0...20 bar                                                                                                                                       |
| Accuracy              | 1% / 0.5% / 0.35% / 0.25% FSO                                                                                                                                           |
| Mechanical connection | G1 1/2" with flush sensor diaphragm; Varivent; clamp; flange; dairy pipe and others                                                                                     |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                    |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> or 99,9% Al <sub>2</sub> O <sub>3</sub> )                                                                                   |
| Options               | field housing; IP 67; IP 68                                                                                                                                             |
| Areas of application  |   |
| Preferred media       |   |



## CCA-K-387

- ✓ ceramic sensor
- ✓ high overpressure resistance, high temperature and media resistance
- ✓ mechanical and environmental engineering, laboratory techniques, biogas plants

|                       | CCA-K-351                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...100 mbar up to 0...40 bar                                                                                                                                      |
| Accuracy              | 0,35% / 0,25% FSO                                                                                                                                                       |
| Mechanical connection | G1/2"; G1/4"; G3/4" with flush sensor diaphragm                                                                                                                         |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                    |
| Diaphragm             | ceramic (99,9% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                         |
| Options               | field housing; connection material PP or PVDF; IP 67; IP 68                                                                                                             |
| Areas of application  |   |
| Preferred media       |   |



## OEM Pressure transmitters

### CCE-17.600G / CCE-17.609G

- ✓ stainless steel sensor
- ✓ welded sensor, designed to work in difficult conditions
- ✓ mobile hydraulics, presses, mechanical engineering, oxygen applications (CCE-17.600G), refrigeration (CCE-17.609G)



|                       | CCE-17.600G                                                                                                                                                                                                                                           | CCE-17.609G                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...6 bar up to 0...600 bar                                                                                                                                                                                                                      | from 0...6 bar up to 0...60 bar, from -1...6 bar up to -1...60 bar                                                                                                        |
| Accuracy              | 0.5% FSO                                                                                                                                                                                                                                              |                                                                                                                                                                           |
| Mechanical connection | G1/4"; G1/2"; 1/2 NPT; 1/4 NPT; M20x1.5 and others                                                                                                                                                                                                    | 7/16 - 20 UNF                                                                                                                                                             |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire), 10...90% Vs (3-wire ratiometric)                                                                                                                                                                                |                                                                                                                                                                           |
| Diaphragm             | stainless steel 1.4542 (630)                                                                                                                                                                                                                          |                                                                                                                                                                           |
| Options               | oxygen applications; oil and grease free version; with throttle screw M4; IP 67                                                                                                                                                                       | IP 68                                                                                                                                                                     |
| Areas of application  |    |     |
| Preferred media       |                                                                                   |   |



### CCE-18.600G / CCE-18.601G

- ✓ stainless steel sensor (CCE-18.601G) or stainless steel / silicon sensor (CCE-18.600G)
- ✓ for low gauge pressure
- ✓ without media isolation
- ✓ mechanical and environmental engineering, pneumatics, HVAC



|                       | CCE-18.600G                                                                         | CCE-18.601G                                                                                                                                                                                                                                                      |
|-----------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...100 mbar up to 0...6 bar                                       |                                                                                                                                                                                                                                                                  |
| Accuracy              | 0.5% / 1% FSO                                                                       |                                                                                                                                                                                                                                                                  |
| Mechanical connection | G1/4"; G1/2"; 1/4 NPT                                                               | G1/4"; 1/4 NPT                                                                                                                                                                                                                                                   |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire), 10...90% Vs (3-wire ratiometric)              |                                                                                                                                                                                                                                                                  |
| Diaphragm             | stainless steel 316 L + silicon                                                     | stainless steel 316 L                                                                                                                                                                                                                                            |
| Options               | IP 67                                                                               |                                                                                                                                                                                                                                                                  |
| Areas of application  |  |    |
| Preferred media       |  |                                                                                        |



## CCE-18.605G

- ✓ piezoresistive, submersible, stainless steel sensor
- ✓ measurement of level or pressure in water and fuel tanks
- ✓ high long-term stability, excellent thermal properties
- ✓ mechanical and environmental engineering, power engineering



|                       | CCE-18.605G                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...1 mH <sub>2</sub> O up to 0...10 mH <sub>2</sub> O / from 0...100 mbar up to 0...1 bar                                                                     |
| Accuracy              | 0.5% / 1% FSO                                                                                                                                                       |
| Mechanical connection | G1/4"; open (without thread)                                                                                                                                        |
| Diaphragm             | stainless steel 316 L                                                                                                                                               |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire),<br>10...90% Vs (3-wire ratiometric)                                                                                           |
| Areas of application  |   |
| Preferred media       |   |



## CCE-26.600G

- ✓ ceramic sensor
- ✓ mechanical and environmental engineering, hydraulics

|                       | CCE-26.600G                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...1 bar up to 0...400 bar                                                                                                                            |
| Accuracy              | 0.5% / 1% FSO                                                                                                                                                           |
| Mechanical connection | G1/2"; G1/4"; G1/8"; 1/4 NPT; M20x1.5; M12x1.5                                                                                                                          |
| Output signal         | 4...20 mA (2-wire), 4...20 mA / 0...20 mA / 0...10 V / 0...5V / 1...5V (3-wire),<br>10...90% Vs (3-wire ratiometric)                                                    |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                           |
| Options               | oxygen application; oil and grease free version;<br>with throttle screw M4; IP 67                                                                                       |
| Areas of application  |   |
| Preferred media       |   |



## CCE-30.600G

- ✓ economical pressure transmitter
- ✓ ceramic sensor
- ✓ mechanical and environmental engineering, hydraulics

|                       | CCE-30.600G                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...1,6 bar up to 0...250 bar                                                                                                                                      |
| Accuracy              | 1% FSO                                                                                                                                                                  |
| Mechanical connection | G1/2"; G1/4"; G1/8"; 1/4 NPT; M20x1.5                                                                                                                                   |
| Output signal         | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                           |
| Diaphragm             | 4...20 mA (2-wire), 0...10 V / 1...10V / 0.5...4.5 V (3-wire),<br>10...90% Vs (3-wire ratiometric)                                                                      |
| Options               | oil and grease free version; IP 67                                                                                                                                      |
| Areas of application  |   |
| Preferred media       |   |



## CCA-Xi / CCA-Xci

- ✓ stainless steel sensor (CCA-Xi)
- ✓ internal or flush mounted capacitive ceramic sensor (CCA-Xci)
- ✓ HART communication
- ✓ integrated display and operating module
- ✓ turn-down 10:1
- ✓ two chamber aluminium die cast case or stainless field housing
- ✓ process engineering, chemical industry, petrochemical industry, gas industry



|                       | CCA-Xi                                                                                                                                                                                                                                                                                                                                   | CCA-Xci                                                                                       |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Nominal pressure      | from -400...400 mbar up to -1...10 bar<br>from 0...400 mbar up to 0...600 bar                                                                                                                                                                                                                                                            | from 0...60 mbar up to 0...20 bar                                                             |
| Accuracy              | 0.1% FSO                                                                                                                                                                                                                                                                                                                                 | 0.1% / 0.2% FSO                                                                               |
| Mechanical connection | threads G1/2", G3/4", G1", G1 1/2", G2" with flush sensor diaphragm; Varivent; clamp; flange; dairy pipe and others                                                                                                                                                                                                                      | threads G1/2", G1 1/2", 1/2 NPT; flange; dairy pipe; DRD                                      |
| Output signal         | 4...20 mA (2-wire), Hart communication                                                                                                                                                                                                                                                                                                   |                                                                                               |
| Diaphragm             | stainless steel 316 L, Hastelloy or tantal                                                                                                                                                                                                                                                                                               | ceramic (96 % or 99,9 % Al <sub>2</sub> O <sub>3</sub> )                                      |
| Case                  | two chamber aluminium die cast case or stainless field housing                                                                                                                                                                                                                                                                           |                                                                                               |
| Options               | integrated display and operating module; cooling element for media temp. up to 300°C; various seal types; welded version, without seals, food compatible oil, silicone oil or Halocarbon filling fluid                                                                                                                                   | integrated display and operating module, PVDF connection, temperature compensation -20...80°C |
| Areas of application  |     |                                                                                               |
| Preferred media       |                                                                                                                                                                      |                                                                                               |

HART  
COMMUNICATION PROTOCOL



## CCA-Xact

- ✓ internal or flush mounted capacitive ceramic sensor
- ✓ hygienic version
- ✓ integrated display and operating module
- ✓ turn-down 5:1
- ✓ two chamber aluminium die cast case or stainless field housing
- ✓ food, pharmaceutical and biotechnology industries



|                       | CCA-Xact                                                                                                                                                                |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...60 mbar up to 0...20 bar                                                                                                                                       |
| Accuracy              | 0.1% / 0.2% FSO                                                                                                                                                         |
| Mechanical connection | G1 1/2"; clamp; flange; dairy pipe; DRD                                                                                                                                 |
| Output signal         | 4...20 mA (2-wire)                                                                                                                                                      |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> or 99,9% Al <sub>2</sub> O <sub>3</sub> )                                                                                   |
| Options               | PVDF pressure port, horizontal rotatable housing (side or 45° display)                                                                                                  |
| Areas of application  |   |
| Preferred media       |   |



# Differential pressure transmitters

## CRA-300

- ✓ piezoresistive, silicon sensor
- ✓ medium temperature up to 120°C (direct measurement)
- ✓ measurement of pressure difference on measuring venturis, control of contamination of filtering systems



|                       | CRA-300                                                                                |
|-----------------------|----------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...1 kPa up to 0...2.5 MPa                                                       |
| Accuracy              | 0.5% FSO                                                                               |
| Mechanical connection | M20x1.5; 1/4 NPT                                                                       |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire)                                                   |
| Diaphragm             | stainless steel 316 L with silicon                                                     |
| Options               | Ex; marine applications; permissible static pressure 4 MPa; contact with potable water |
| Areas of application  |       |
| Preferred media       |       |



## CRA-310

- ✓ piezoresistive, silicon sensor
- ✓ also for oxygen service
- ✓ medium temperature up to 120°C (direct measurement)
- ✓ resistant to overload with full static pressure
- ✓ measurement of pressure difference on measuring venturis, control of contamination of filtering systems



|                       | CRA-310                                                                               |
|-----------------------|---------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...2 kPa up to 0...1.6 MPa                                                      |
| Accuracy              | 0.4% / 0.25% FSO                                                                      |
| Mechanical connection | M20x1.5 or mounting with a valve manifold                                             |
| Output signal         | 4...20 mA (2-wire), 0...20 mA / 0...10V (3-wire)                                      |
| Diaphragm             | stainless steel 316 L with silicon; Hastelloy                                         |
| Options               | contact with potable water; wetted parts made of Hastelloy C 276; oxygen applications |
| Areas of application  |    |
| Preferred media       |    |



## CRI-P-340

- ✓ stainless steel sensor
- ✓ output signal: linear or square root extraction
- ✓ HART communication
- ✓ two chamber aluminium die cast case
- ✓ mechanical and environmental engineering, oil and gas industry



|                       | CRI-P-340                                                                            |
|-----------------------|--------------------------------------------------------------------------------------|
| Nominal pressure      | from -60...60 mbar up to -2.5...2.5 bar; from 0...60 mbar up to 0...20 bar           |
| Accuracy              | 0.1% / 0.075% FSO                                                                    |
| Mechanical connection | 1/4 NPT                                                                              |
| Output signal         | 4...20 mA (2-wire) with HART communication                                           |
| Diaphragm             | stainless steel 316 L; Hastelloy                                                     |
| Options               | integrated display and operating, square root output signal - active                 |
| Areas of application  |  |
| Preferred media       |   |



## CRA-P-331

- ✓ stainless steel sensor
- ✓ mechanical robust and reliable at dynamic pressures
- ✓ for liquids and gases
- ✓ mechanical and environmental engineering, power engineering



|                       | CRA-P-331                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...20 mbar up to 0...16 bar                                                                                                                                   |
| Accuracy              | 0.5% / 1% FSO                                                                                                                                                       |
| Mechanical connection | G1/2"; G1/4"; M20x1.5; M12x1; 7/16 UNF                                                                                                                              |
| Output signal         | 4...20 mA (2-wire), 0...10V / 0...5V (3-wire)                                                                                                                       |
| Diaphragm             | stainless steel 316 L                                                                                                                                               |
| Options               | various seal types; also welded version, without seals                                                                                                              |
| Areas of application  |   |
| Preferred media       |   |



## CRA-P-341

- ✓ silicon sensor
- ✓ suited for non-aggressive gases and compressed air
- ✓ compact aluminium design
- ✓ mechanical and environmental engineering, heating and air conditioning



|                       | CRA-P-341                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from -6...6 mbar up to -1000...1000 mbar; from 0...6 mbar up to 0...1000 mbar                                                                                           |
| Accuracy              | 0.35% / 1% / 2% FSO                                                                                                                                                     |
| Mechanical connection | G1/8" internal, Ø 6.6 x 11 (for tubes Ø 6)                                                                                                                              |
| Output signal         | 4...20 mA (2-wire), 0...20 mA / 0...10V (3-wire)                                                                                                                        |
| Diaphragm             | silicon                                                                                                                                                                 |
| Options               | various connection types; IP 67                                                                                                                                         |
| Areas of application  |   |
| Preferred media       |   |



## CRA-P-831

- ✓ 2 piezoresistive stainless steel sensors
- ✓ display and pressure port rotatable, 1 or 2 PNP contact inputs
- ✓ mechanical and environmental engineering, heating and air conditioning



|                       | CRA-P-831                                                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...1 bar up to 0...70 bar                                                                                                                                                                                                                             |
| Accuracy              | 2% FSO                                                                                                                                                                                                                                                      |
| Mechanical connection | G1/2"; G1/4"; 1/2 NPT; 1/4 NPT                                                                                                                                                                                                                              |
| Output signal         | 4...20 mA (3-wire)                                                                                                                                                                                                                                          |
| Diaphragm             | stainless steel 316 L                                                                                                                                                                                                                                       |
| Options               |    |
| Areas of application  |    |



## CRV-808 / CRV-809

- ✓ gauge pressure (CRV-809) or differential pressure measurement (CRV-808)
- ✓ for dry, non-aggressive gases and compressed air
- ✓ piezoresistive silicon sensor
- ✓ 1 or 2 PNP contact inputs
- ✓ high overpressure capability, compensated temperature output signal
- ✓ good long-term stability, linearity and repeatability
- ✓ very short wait for a response
- ✓ medicine, HVAC



|                       | CRV-808                                                                                                                                                             | CRV-809 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Nominal pressure      | from 0...6 mbar up to 0...1000 mbar                                                                                                                                 |         |
| Accuracy              | 0.35% / 1% / 2% FSO                                                                                                                                                 |         |
| Mechanical connection | Ø 6.6 x 11 (for tubes Ø 6)                                                                                                                                          |         |
| Output signal         | 4...20 mA (2-wire), 0...10V / 0...20 mA / 4...20 mA (3-wire), 4...20 mA (4-wire)                                                                                    |         |
| Diaphragm             | silicon, mineral glass                                                                                                                                              |         |
| Options               | integrated display and operating; 1 or 2 PNP contacts with switching capacity; various power supplies types, clamp ring tube fitting 1/8" Ms, nickel-plated Ø 6 mm  |         |
| Areas of application  |   |         |
| Preferred media       |   |         |



## CRV-815 / CRV-816

- ✓ gauge pressure (CRV-816) or differential pressure measurement (CRV-815)
- ✓ for dry, non-aggressive gases and compressed air
- ✓ piezoresistive silicon and ceramic sensor
- ✓ 2 PNP contact inputs
- ✓ adjustable ranges and damping, high overload possible
- ✓ medicine, HVAC



|                       | CRV-815                                                                                                                                                                 | CRV-816 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Nominal pressure      | from -1.6...1.6 mbar up to -1000...1000 mbar; from 0...1.6 mbar up to 0...1000 mbar                                                                                     |         |
| Accuracy              | 1% / 2% FSO                                                                                                                                                             |         |
| Mechanical connection | Ø 6.6 x 11 (for tubes Ø 6), Ø 4.4 x 10 (for tubes Ø 4)                                                                                                                  |         |
| Output signal         | silicon, ceramic                                                                                                                                                        |         |
| Diaphragm             | 4...20 mA (2-wire), 0...5V / 0...10V / 0...20 mA switchable (3-wire)                                                                                                    |         |
| Options               | integrated display and operating; 2 PNP contacts with switching capacity; automatic zeroing; square-root extraction                                                     |         |
| Areas of application  |   |         |
| Preferred media       |   |         |



## Pressure gauges

### CCM-P-01 / CCM-P-01-500

- ✓ battery powered precision digital pressure gauge
- ✓ controlling of pressure courses or calibrating of pressure transmitters, tightness tests
- ✓ stainless steel housing Ø 100 mm
- ✓ stainless steel sensor
- ✓ data logger including software
- ✓ mechanical and environmental engineering, laboratories, environmental protection, calibration techniques



|                         | CCM-P-01                                                                                                                                                                                                                                                                                                                                | CCM-P-01-500                    |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Nominal pressure        | from 0...100 mbar up to 0...400 bar                                                                                                                                                                                                                                                                                                     |                                 |
| Accuracy                | 0.05% / 0.125% FSO                                                                                                                                                                                                                                                                                                                      |                                 |
| Mechanical connection   | G1/2"; G1/4"; 1/2 NPT; 1/4 NPT                                                                                                                                                                                                                                                                                                          |                                 |
| Display                 | LCD, graphic, 128 x 64 pixels, background illumination                                                                                                                                                                                                                                                                                  |                                 |
| Diaphragm               | stainless steel 316 L                                                                                                                                                                                                                                                                                                                   |                                 |
| Communication interface | USB 2.0                                                                                                                                                                                                                                                                                                                                 |                                 |
| Options                 | software, communication interface, USB converter, protective rubber cap, calibration test pump                                                                                                                                                                                                                                          | software, gauge version, potted |
| Functions               | zero point calibration, turn off and switch-off automatic, data logging, background illumination                                                                                                                                                                                                                                        |                                 |
| Areas of application    |     |                                 |
| Preferred media         |                                                                                      |                                 |



### CCM-K-10 / CCM-P-17

- ✓ battery powered precision OEM digital pressure gauge
- ✓ stainless steel or ceramic sensor
- ✓ rotatable, stainless steel housing Ø 63 mm
- ✓ mechanical and environmental engineering, laboratories, environmental protection, calibration techniques



|                       | CCM-K-10                                                                                                                                                                                                                                                    | CCM-P-17                                                                                                                                                                    |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...1,6 bar up to 0...250 bar                                                                                                                                                                                                                          | from 0...6 bar up to 0...600 bar                                                                                                                                            |
| Accuracy              | 0.5% FSO                                                                                                                                                                                                                                                    |                                                                                                                                                                             |
| Mechanical connection | G1/2"; G1/4"; 1/4" NPT                                                                                                                                                                                                                                      |                                                                                                                                                                             |
| Display               | LCD: 4.5-digit 7-segment x 8.5 mm height, range of indication ±1999                                                                                                                                                                                         |                                                                                                                                                                             |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                               | stainless steel 1.4542 (630), welded                                                                                                                                        |
| Options               | none                                                                                                                                                                                                                                                        | oil and grease free version for oxygen application                                                                                                                          |
| Functions             | setting of pressure unit, auto-zeroing, min / max values, automatic switching-off function                                                                                                                                                                  |                                                                                                                                                                             |
| Areas of application  |    |   |
| Preferred media       |    |   |



## CCM-P-02 / CCM-P-02P

- ✓ battery powered digital pressure gauge
- ✓ stainless steel sensor
- ✓ rotatable, stainless steel housing Ø 76,5 mm
- ✓ food compatible oil as filling medium (CCM-P-02P)
- ✓ mechanical and environmental engineering, laboratories, environmental protection



|                       | CCM-P-02                                                                                                                           | CCM-P-02P                                      |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...100 mbar up to 0...600 bar                                                                                    | -1...0 bar, from 0...100 mbar up to 0...40 bar |
| Accuracy              | 0.5% / 0.25% FSO                                                                                                                   |                                                |
| Mechanical connection | G1/2"; G1/4"; 1/2 NPT; 1/4 NPT; M20x1.5                                                                                            | G1/2"; G1"; clamp; dairy pipe                  |
| Display               | LCD: 4.5 digits x height 11 mm, range of indication ±19999, additional display: 6 digits x height 7,5 mm                           |                                                |
| Diaphragm             | stainless steel 316L                                                                                                               |                                                |
| Options               | welded version, no seals                                                                                                           | food compatible or silicone oil                |
| Functions             | switching the unit, displaying min / max values, calibrating the offset and the end point, configuring the automatic switching-off |                                                |
| Areas of application  |                                                                                                                                    |                                                |
| Preferred media       |                                                                                                                                    |                                                |



## CCM-K-05 / CCM-P-05P

- ✓ battery powered digital pressure gauge
- ✓ stainless steel or ceramic sensor
- ✓ rotatable, stainless steel housing Ø 76,5 mm
- ✓ food compatible oil as filling medium (CCM-P-05P)
- ✓ mechanical and environmental engineering, laboratories, environmental protection



|                       | CCM-K-05                                                                                                                           | CCM-P-05P                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...400 mbar up to 0...600 bar                                                                                    | from 0...60 mbar up to 0...400 bar |
| Accuracy              | 0.5% / 1% FSO                                                                                                                      | 0.5% FSO                           |
| Mechanical connection | G1/2"; G1/4"; 1/2 NPT; 1/4 NPT; M20x1.5                                                                                            | G1/2"; G1"                         |
| Display               | LCD: 4.5 digits x height 11 mm, range of indication ±19999, additional display: 6 digits x height 7,5 mm                           |                                    |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                      | stainless steel 316L               |
| Options               | version for oxygen application                                                                                                     | food compatible or silicone oil    |
| Functions             | switching the unit, displaying min / max values, calibrating the offset and the end point, configuring the automatic switching-off |                                    |
| Areas of application  |                                                                                                                                    |                                    |
| Preferred media       |                                                                                                                                    |                                    |



# Level measurement

## APPLICATIONS

- ground water monitoring
- measurement of level and depth in wells
- drinking water systems
- level monitoring in open and closed tanks
- storm water systems
- pump and generator stations
- sewage treatment plants
- storage tanks / fuel storage
- water recovery systems



Hydrostatic level probes, manufactured by Simex, are suitable for measuring the level of all types of liquid and semi-liquid media. Some of them are recommended for aggressive media, e.g. most of acids and lyes.

Our specialty are detachable submersible probes (e.g. CPA-P-308 / CPA-P-808 / CPA-P-858) - the cable part can be separated from the sensor head without any effort and without the use of tools. This is a huge advantage, both during installation and during service or maintenance activities.

Numerous special versions are available, e.g. with overvoltage protection, integrated temperature sensor or data logger, as well as versions with RS-485 communication interface or signal output with HART protocol.

## HYDROSTATIC SUBMERSIBLE LEVEL PROBES - P. 18

## HYDROSTATIC SCREW-IN LEVEL PROBES - P. 23

## Hydrostatic submersible level probes

### CPA-300

- ✓ probe for continuous level measurement, diameter 25 mm
- ✓ Ex intrinsically safe for gases and dusts version, ATEX certificate
- ✓ stainless steel sensor and case
- ✓ integrated internal overvoltage protection circuit
- ✓ additional PTFE cover for particularly aggressive media



|                      | CPA-300                                                                                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...1 mH <sub>2</sub> O up to 0...500 mH <sub>2</sub> O                                                                                                                                                                                          |
| Accuracy             | 0.3% / 0.2% FSO                                                                                                                                                                                                                                       |
| Diaphragm            | stainless steel 316L, Hastelloy (option)                                                                                                                                                                                                              |
| Output signal        | 4...20 mA (2-wire), 0...10V, 0...5V, 0...2,5V (3-wire)                                                                                                                                                                                                |
| Options              | various cable sheaths (PU, ETFE, PTFE); intrinsic safety certificate; marine certificate; probe with Pt100 sensor                                                                                                                                     |
| Areas of application |                                                                                     |
| Preferred media      |    |



### CPA-310

- ✓ probe for continuous level measurement, diameter 16 mm
- ✓ ideal for cramped areas in confined space conditions, deep water wells
- ✓ stainless steel sensor and case
- ✓ integrated internal overvoltage protection circuit



|                      | CPA-310                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...1 mH <sub>2</sub> O up to 0...500 mH <sub>2</sub> O                                                                                                            |
| Accuracy             | 0.3% / 0.2% FSO                                                                                                                                                         |
| Diaphragm            | stainless steel 316L                                                                                                                                                    |
| Output signal        | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                    |
| Options              | various cable sheaths (PU, ETFE, PTFE); probe with Pt100 sensor                                                                                                         |
| Areas of application |   |
| Preferred media      |   |



### CPA-325S

- ✓ probe for continuous level measurement, diameter 26,5 mm
- ✓ measurement of the level of sewage, liquids containing impurities and suspended solids
- ✓ stainless steel sensor and case
- ✓ separator diameter 76 mm, diaphragm diameter 48 mm
- ✓ high resistance to contamination, deposits and mechanical damage



|                      | CPA-325S                                                                                                                                                                |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...1 mH <sub>2</sub> O up to 0...250 mH <sub>2</sub> O                                                                                                            |
| Accuracy             | 0.5% / 0.35% FSO                                                                                                                                                        |
| Diaphragm            | stainless steel 316L                                                                                                                                                    |
| Output signal        | 4...20 mA (2-wire), 0...20 mA, 0...10V, 0...5V, 4...20 mA (3-wire)                                                                                                      |
| Options              | various cable types (PUR, PVC, TPE-U, FEP)                                                                                                                              |
| Areas of application |   |
| Preferred media      |   |

## CPA-P-305

- ✓ slimline probe for continuous level measurement, diameter 19 mm
- ✓ ideal for cramped areas in confined space conditions, deep water wells
- ✓ stainless steel probe and sensor
- ✓ small thermal error, excellent linearity, high long-term stability



|                      | CPA-P-305                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...1 mH <sub>2</sub> O up to 0...250 mH <sub>2</sub> O                                                                                                        |
| Accuracy             | 0.5% / 0.35% / 0.25% FSO                                                                                                                                            |
| Diaphragm            | stainless steel 316 L                                                                                                                                               |
| Output signal        | 4...20 mA (2-wire)                                                                                                                                                  |
| Options              | various cable sheaths; terminal clamp of stainless steel or zinc plated steel                                                                                       |
| Areas of application |   |
| Preferred media      |                                                                                    |



## CPA-P-307 / CPA-P-307T

- ✓ probe for continuous level measurement, diameter 27 mm
- ✓ stainless steel probe and sensor
- ✓ integrated Pt100 temperature sensor (CPA-P-307T)
- ✓ small thermal effect, excellent accuracy and long term stability



|                      | CPA-P-307                                                                                                                                                               | CPA-P-307T                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...1 mH <sub>2</sub> O up to 0...250 mH <sub>2</sub> O                                                                                                            | level: from 0...1 mH <sub>2</sub> O up to 0...250 mH <sub>2</sub> O<br>temperature: -10...50°C and from 0...30°C to 0...70°C |
| Accuracy             | 0.5% / 0.35% / 0.25% / 0.1% FSO                                                                                                                                         | 0.5% / 0.35% / 0.25% FSO / 1°C                                                                                               |
| Diaphragm            | stainless steel 316 L                                                                                                                                                   |                                                                                                                              |
| Output signal        | 4...20 mA (2-wire),<br>0...20 mA, 0...10V, 0...5V (3-wire)                                                                                                              | 4...20 mA (2-wire),<br>separate for pressure and temperature                                                                 |
| Options              | cable protected by corrugated hose; terminal clamp of stainless steel or zinc plated steel; drinking water certificate, various kinds of cable sheath                   | terminal clamp of stainless steel or zinc plated steel; drinking water certificate, various kinds of cable sheath            |
| Areas of application |   |                                                                                                                              |
| Preferred media      |   |                                                                                                                              |



## CPA-P-307i / CPA-P-307i-RS

- ✓ precision probe, for continuous level measurement, diameter 27 mm
- ✓ stainless steel probe and sensor
- ✓ water and clean or slightly contaminated liquids
- ✓ small thermal effect, excellent accuracy and long term stability



|                      | CPA-P-307i                                                                                                                                                              | CPA-P-307i-RS                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...4 mH <sub>2</sub> O up to 0...200 mH <sub>2</sub> O                                                                                                            | from 0...4 mH <sub>2</sub> O up to 0...200 mH <sub>2</sub> O                          |
| Accuracy             | 0.1% / 0.2% FSO                                                                                                                                                         | 0.1 % FSO                                                                             |
| Diaphragm            | stainless steel 316 L                                                                                                                                                   |                                                                                       |
| Output signal        | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                    | digital RS-485 / Modbus RTU or HART                                                   |
| Options              | cable protected by corrugated hose; terminal clamp of stainless steel or zinc plated steel; drinking water certificate, various kinds of cable sheath                   | various kinds of cable sheath; terminal clamp of stainless steel or zinc plated steel |
| Areas of application |   |                                                                                       |
| Preferred media      |   |                                                                                       |



## CPA-P-308 / CPA-P-308i

- ✓ probe for continuous level measurement, diameter 35 mm
- ✓ stainless steel probe and sensor
- ✓ possibility of disconnecting the cable part from the measuring part
- ✓ excellent accuracy and long term stability



|                      | CPA-P-308                                                                                                                                                           | CPA-P-308i                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...1 mH <sub>2</sub> O up to 0...250 mH <sub>2</sub> O                                                                                                        | from 0...4 mH <sub>2</sub> O up to 0...200 mH <sub>2</sub> O                                                                 |
| Accuracy             | 0.5% / 0.35% / 0.25% / 0.1% FSO                                                                                                                                     | 0.1% / 0.2% FSO                                                                                                              |
| Diaphragm            | stainless steel 316 L                                                                                                                                               | stainless steel 316 L                                                                                                        |
| Output signal        | 4...20 mA (2-wire), 0...20 mA, 0...10V (3-wire)                                                                                                                     | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                         |
| Options              | various cable sheaths; terminal clamp of stainless steel or zinc plated steel; version with temperature sensor PT100                                                | various cable sheaths; terminal clamp of stainless steel or zinc plated steel; RS-232; version with temperature sensor PT100 |
| Areas of application |   |                                                                                                                              |
| Preferred media      |                                                                                    |                                                                                                                              |



## CPA-P-808

- ✓ probe for continuous level measurement, diameter 35 mm
- ✓ stainless steel sensor
- ✓ plastic PP-HT probe housing
- ✓ possibility of disconnecting the cable part from the measuring part



|                      | CPA-P-808                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...1 mH <sub>2</sub> O up to 0...100 mH <sub>2</sub> O                                                                                                            |
| Accuracy             | 0.5% / 0.35% / 0.25% FSO                                                                                                                                                |
| Diaphragm            | stainless steel 316 L                                                                                                                                                   |
| Output signal        | 4...20 mA (2-wire), 0...20 mA, 0...10V, 0...5V, 4...20 mA (3-wire)                                                                                                      |
| Options              | various cable sheaths; terminal clamp of stainless steel or zinc plated steel                                                                                           |
| Areas of application |   |
| Preferred media      |   |



## CPA-K-306

- ✓ probe for continuous level measurement, diameter 17 mm
- ✓ ideal for cramped areas in confined space conditions, deep water wells
- ✓ stainless steel case, ceramic sensor
- ✓ excellent linearity, high long-term stability



|                      | CPA-K-306                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...6 mH <sub>2</sub> O up to 0...200 mH <sub>2</sub> O                                                                                                            |
| Accuracy             | 0.5% FSO                                                                                                                                                                |
| Diaphragm            | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                           |
| Output signal        | 4...20 mA (2-wire)                                                                                                                                                      |
| Options              | various cable sheaths; terminal clamp of stainless steel or zinc plated steel                                                                                           |
| Areas of application |   |
| Preferred media      |                                                                                      |



## CPA-K-307

- ✓ probe for continuous level measurement, diameter 27 mm
- ✓ stainless steel case, ceramic sensor
- ✓ small thermal error, high long-term stability
- ✓ water, sewage, oils, fuels



|                      | CPA-K-307                                                                                                                                                           |  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Nominal pressure     | from 0...4 mH <sub>2</sub> O up to 0...250 mH <sub>2</sub> O                                                                                                        |  |
| Accuracy             | 0.5% FSO                                                                                                                                                            |  |
| Diaphragm            | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                       |  |
| Output signal        | 4...20 mA (2-wire), 0...20 mA, 0...10V (3-wire)                                                                                                                     |  |
| Options              | various cable sheaths; terminal clamp of stainless steel or zinc plated steel                                                                                       |  |
| Areas of application |   |  |
| Preferred media      |   |  |



## CPA-K-358 / CPA-K-358H

- ✓ probe for continuous level measurement, diameter 39,5 mm
- ✓ stainless steel case, ceramic sensor
- ✓ possibility of disconnecting the cable part from the measuring part
- ✓ water or contaminated and viscous media



|                      | CPA-K-358                                                                                                                                                                                                                                                                                                                                        | CPA-K-358H                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Nominal pressure     | from 0...0,4 mH <sub>2</sub> O up to 0...100 mH <sub>2</sub> O                                                                                                                                                                                                                                                                                   | from 0...0,6 mH <sub>2</sub> O up to 0...100 mH <sub>2</sub> O                |
| Accuracy             | 0.35% / 0.25% FSO                                                                                                                                                                                                                                                                                                                                | 0.1% / 0.2% FSO                                                               |
| Diaphragm            | ceramic (96% or 99,9% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                                                                                                           | ceramic (96% or 99,9% Al <sub>2</sub> O <sub>3</sub> )                        |
| Output signal        | 4...20 mA (2-wire),<br>0...10V (3-wire)                                                                                                                                                                                                                                                                                                          | 4...20 mA (2-wire), HART                                                      |
| Options              | various cable sheaths; terminal clamp of stainless steel or zinc plated steel; probe with Pt100 sensor                                                                                                                                                                                                                                           | various cable sheaths; terminal clamp of stainless steel or zinc plated steel |
| Areas of application |                                                                                                                                                                            |                                                                               |
| Preferred media      |     |                                                                               |



## CPA-K-382 / CPA-K-382H

- ✓ probe for continuous level measurement, diameter 39,5 mm
- ✓ ceramic sensor
- ✓ case from stainless steel or copper-nickel-alloy, resistant against sea water
- ✓ water or contaminated and viscous media



|                      | CPA-K-382                                                                                                                                                                                                                                                                                                                                        | CPA-K-382H                                                     |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Nominal pressure     | from 0...0,4 mH <sub>2</sub> O up to 0...200 mH <sub>2</sub> O                                                                                                                                                                                                                                                                                   | from 0...0,6 mH <sub>2</sub> O up to 0...200 mH <sub>2</sub> O |
| Accuracy             | 0.35 % / 0.25 % FSO                                                                                                                                                                                                                                                                                                                              | 0.2 % / 0.1 % FSO                                              |
| Diaphragm            | ceramic (96% or 99,9% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                                                                                                           | ceramic (96% or 99,9% Al <sub>2</sub> O <sub>3</sub> )         |
| Output signal        | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                                                                                                                                                                                             | 4...20 mA (2-wire), HART                                       |
| Options              | various cable sheaths; terminal clamp of stainless steel or zinc plated steel; flange mounting version; temperature compensation 0...100°C                                                                                                                                                                                                       | various cable sheaths; flange mounting version                 |
| Areas of application |                                                                                                                                                                            |                                                                |
| Preferred media      |     |                                                                |



## CPA-K-387

- ✓ submerible or screw-in probe for continous level measurement, diameter 22 mm
- ✓ stainless steel or titanium case, ceramic sensor
- ✓ water, sewage, oils, fuels



|                      | CPA-K-387                                                                                                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...1 mH <sub>2</sub> O up to 0...100 mH <sub>2</sub> O                                                                                                                                                                                          |
| Accuracy             | 0.35% / 0.25% FSO                                                                                                                                                                                                                                     |
| Diaphragm            | ceramic (99,9% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                       |
| Output signal        | 4...20 mA (2-wire)                                                                                                                                                                                                                                    |
| Options              | various cable sheaths and seals; screw-in version; probe with Pt100 sensor                                                                                                                                                                            |
| Areas of application |                                                                                     |
| Preferred media      |    |



## CPA-K-807

- ✓ probe for continous level measurement, diameter 35 mm
- ✓ stainless steel or plastic PP-HT case, ceramic sensor
- ✓ high long-term stability
- ✓ sewage, aggressive media



|                      | CPA-K-807                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure     | from 0...4 mH <sub>2</sub> O up to 0...250 mH <sub>2</sub> O                                                                                                            |
| Accuracy             | 0.5% FSO                                                                                                                                                                |
| Diaphragm            | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                           |
| Output signal        | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                    |
| Options              | various cable sheaths and seals; terminal clamp of stainless steel or zinc plated steel                                                                                 |
| Areas of application |   |
| Preferred media      |   |



## CPA-K-809 / CPA-K-858

- ✓ probe for continous level measurement, diameter 45 mm
- ✓ ceramic sensor
- ✓ chemical resistance, plastic PP-HT or PVDF case
- ✓ high resistance to overpressure
- ✓ sewage, aggressive media, acids, alkalis

CPA-K-809



CPA-K-858



|                      | CPA-K-809                                                                                                                                                                                                                                                   | CPA-K-858 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Nominal pressure     | from 0...0.4 mH <sub>2</sub> O up to 0...100 mH <sub>2</sub> O                                                                                                                                                                                              |           |
| Accuracy             | 0.5% / 0.35% / 0.25% FSO                                                                                                                                                                                                                                    |           |
| Diaphragm            | ceramic (96% or 99,9% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                      |           |
| Output signal        | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                                                                                                        |           |
| Options              | various cable sheaths and seals; terminal clamp of stainless steel or zinc plated steel                                                                                                                                                                     |           |
| Areas of application |                                                                                       |           |
| Preferred media      |    |           |



## Hydrostatic screw-in level probes

### CPA-P-331 / CPA-P-331i / CPA-P-331i-RS

- ✓ screw-in probe for continuous level / pressure measurement, diameter 26,5 mm
- ✓ stainless steel probe and sensor
- ✓ excellent accuracy and long term stability, small thermal effect
- ✓ water, oils, fuels



|                       | CPA-P-331                                                                                                                                                                                                                                             | CPA-P-331i                                                                                                                                                                                                                                             | CPA-P-331i-RS                          |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Nominal pressure      | from 0...1 mH <sub>2</sub> O up to 0...400 mH <sub>2</sub> O                                                                                                                                                                                          | from 0...4 mH <sub>2</sub> O up to 0...400 mH <sub>2</sub> O                                                                                                                                                                                           |                                        |
| Accuracy              | 0.5% / 0.35% / 0.25% / 0.1% FSO                                                                                                                                                                                                                       | 0.1 % / 0.2% FSO                                                                                                                                                                                                                                       |                                        |
| Mechanical connection | G3/4" with flush sensor                                                                                                                                                                                                                               | G3/4"                                                                                                                                                                                                                                                  |                                        |
| Diaphragm             | stainless steel 316 L                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                        |                                        |
| Output signal         | 4...20 mA (2-wire),<br>0...20 mA / 0...10V / 0...5V (3-wire)                                                                                                                                                                                          | 4...20 mA (2-wire),<br>0...10V (3-wire)                                                                                                                                                                                                                | digital RS-485 / Modbus<br>RTU or HART |
| Options               | various types of electrical connections;<br>temperature compensation -20...+50°C                                                                                                                                                                      | various types of electrical connections;<br>RS-232 communication interface                                                                                                                                                                             | various types of power<br>supply       |
| Areas of application  |    |                                                                                      |                                        |
| Preferred media       |                                                                                     |    |                                        |



### CPA-K-331

- ✓ screw-in probe for continuous level / pressure measurement, diameter 26,5 mm
- ✓ stainless steel or plastic PVDF case (for aggressive media), ceramic sensor
- ✓ water, sewage, oils, fuels, aggressive media



|                       | CPA-K-331                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...4 mH <sub>2</sub> O up to 0...600 mH <sub>2</sub> O                                                                                                                                                                                                                                                                                     |
| Accuracy              | 1% / 0.5% FSO                                                                                                                                                                                                                                                                                                                                    |
| Mechanical connection | G3/4" with flush sensor                                                                                                                                                                                                                                                                                                                          |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                                                                                                                    |
| Output signal         | 4...20 mA (2-wire), 0...20 mA / 0...10V (3-wire)                                                                                                                                                                                                                                                                                                 |
| Options               | various types of electrical connections and seals, PVDF case and mechanical connection                                                                                                                                                                                                                                                           |
| Areas of application  |     |
| Preferred media       |     |



### CPA-K-351

- ✓ screw-in probe for continuous level / pressure measurement, diameter 26,5 mm
- ✓ stainless steel or plastic PVC / PVDF case (for aggressive media), ceramic sensor
- ✓ water, sewage, oils, fuels, aggressive media



|                       | CPA-K-351                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...0.4 mH <sub>2</sub> O up to 0...200 mH <sub>2</sub> O                                                                                                                                                                                                                                                                                   |
| Accuracy              | 0.5% / 0.35% / 0.25% FSO                                                                                                                                                                                                                                                                                                                         |
| Mechanical connection | G1 1/2" with flush sensor                                                                                                                                                                                                                                                                                                                        |
| Diaphragm             | ceramic (96% or 99,9% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                                                                                                           |
| Output signal         | 4...20 mA (2-wire), 0...10V (3-wire)                                                                                                                                                                                                                                                                                                             |
| Options               | various types of electrical connections and seals, PVC or PVDF case and mechanical connection                                                                                                                                                                                                                                                    |
| Areas of application  |                                                                                                                                                                            |
| Preferred media       |     |



# Electronic pressure switches

## APPLICATIONS

- mobile hydraulics
- protection against dry running
- flow monitoring
- lubricant monitoring
- gas compressors
- test and construction engineering



Depending on the requirements, universal pressure measuring devices with display and switching contacts can be used as pressure transmitters, electronic pressure switches or digital pressure gauges.

Due to the simple handling as well as the variety of software features (switching points and hysteresis freely configurable, delay function, Min/Max - value data storage, display and analogue output signal scalable, etc.) the CCP-P-200 / CCP-P-400 series is especially suitable as an intelligent pressure switch for general plant and machine construction and the processing industry.

The CCP-S-4 and CCP-K-6 pressure switches have been designed primarily for OEMs. These electronic pressure switches are used in hydraulic and pneumatic applications for monitoring and controlling the pressure via switching outputs. 1 or 2 freely programmable contacts, whose status is indicated by different colored LEDs, can be quickly and conveniently configured using the optionally available P-Set toolkit (PC software and programming adapter) or using the P6 programmer.

**PRESSURE SWITCHES WITH DISPLAY - P. 25**

**PRESSURE SWITCHES WITHOUT DISPLAY - P. 28**

## Electronic pressure switches with display

### CCP-P-200 / CCP-K-201

- ✓ combination of intelligent pressure switch and digital display
- ✓ stainless steel (CCP-P-200) or ceramic sensor (CCP-P-201)
- ✓ 1 or 2 independent PNP contacts, freely configurable
- ✓ rotatable and configurable display module
- ✓ mechanical and environmental engineering



|                       | CCP-P-200                                                                                                                                                                                                                                             | CCP-K-201                                                                                                                                                                                                                                                  |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...100 mbar up to 0...600 bar                                                                                                                                                                                                       | -1...0 bar, from 0...400 mbar up to 0...600 bar                                                                                                                                                                                                            |
| Accuracy              | 0.5% / 0.35% / 0.25% FSO                                                                                                                                                                                                                              | 1% / 0.5% FSO                                                                                                                                                                                                                                              |
| Mechanical connection | G1/2"; G1/4"; G3/4"; 1/2 NPT; 1/4 NPT; M20x1.5; M12x1; with flush sensor                                                                                                                                                                              | G1/2"; G1/4"; G3/4"; 1/2 NPT; 1/4 NPT; with flush sensor; „open port“                                                                                                                                                                                      |
| Display               | LED: 4 digits x height 7 mm, range of indication -1999 ÷ +9999, rotatable and configurable display module                                                                                                                                             |                                                                                                                                                                                                                                                            |
| Diaphragm             | stainless steel 316 L                                                                                                                                                                                                                                 | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                              |
| Contact outputs       | 1 or 2 independent PNP contacts, freely configurable                                                                                                                                                                                                  |                                                                                                                                                                                                                                                            |
| Analog outputs        | 4...20 mA (2-wire),<br>0...20 mA / 4...20 mA / 0...10V (3-wire)                                                                                                                                                                                       | 4...20 mA (2-wire),<br>4...20 mA / 0...10V (3-wire)                                                                                                                                                                                                        |
| Options               | various seal types; welded version, without seals; IP 67                                                                                                                                                                                              | PVDF pressure port; oxygen applications                                                                                                                                                                                                                    |
| Areas of application  |    |                                                                                      |
| Preferred media       |                                                                                     |    |



### CCP-P-200P / CCP-P-201P

- ✓ combination of intelligent pressure switch and digital display
- ✓ flush welded stainless steel sensor
- ✓ 1 or 2 independent PNP contacts, freely configurable
- ✓ rotatable and configurable display module
- ✓ mechanical and environmental engineering



|                       | CCP-P-200P                                                                                                                                                                | CCP-P-201P                                                                                                                                                                  |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...100 mbar up to 0...40 bar                                                                                                                            | -1...0 bar, from 0...60 bar up to 0...400 bar                                                                                                                               |
| Accuracy              | 0.5% / 0.35% / 0.25% FSO                                                                                                                                                  | 0.5% FSO                                                                                                                                                                    |
| Mechanical connection | G1/2"; G3/4"; G1"; G1 1/2"; G2"; M20x1.5; Varivent; clamp; flange and others                                                                                              | G1/2"; G3/4"; G1"; with flush sensor                                                                                                                                        |
| Display               | LED: 4 digits x height 7 mm, range of indication -1999 ÷ +9999, rotatable and configurable display module                                                                 |                                                                                                                                                                             |
| Diaphragm             | stainless steel 316 L, Hastelloy® or tantal (option)                                                                                                                      |                                                                                                                                                                             |
| Contact outputs       | 1 or 2 independent PNP contacts, freely configurable                                                                                                                      |                                                                                                                                                                             |
| Analog outputs        | 4...20 mA (2- and 3-wire),<br>0...20 mA / 4...20 mA / 0...10V (3-wire)                                                                                                    | 4...20 mA (2- and 3-wire),<br>4...20 mA / 0...10V (3-wire)                                                                                                                  |
| Options               | various seal types; welded version, without seals; IP 67; cooling element for media temperatures up to 300°C; filling fluid for foodstuff industry, silicone oil or halon | cooling element for media temperatures up to 300°C; filling fluid for foodstuff industry, silicone oil                                                                      |
| Areas of application  |     |   |
| Preferred media       |                                                                                        |                                                                                        |



## CCP-P-210 / CCP-P-217

- ✓ combination of intelligent pressure switch and digital display
- ✓ stainless steel sensor
- ✓ 1 or 2 independent PNP contacts, freely configurable
- ✓ rotatable and configurable display module
- ✓ mechanical and environmental engineering



|                       | CCP-P-210                                                                                                                                                                                                                                             | CCP-P-217                                                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...10 mbar up to 0...1 bar                                                                                                                                                                                                          | from 0...6 bar up to 0...600 bar                                                                                                                                                                                                                            |
| Accuracy              | 0.5% / 0.35% FSO                                                                                                                                                                                                                                      | 0.5% FSO                                                                                                                                                                                                                                                    |
| Mechanical connection | G1/2"; G1/4"; 1/2 NPT; 1/4 NPT                                                                                                                                                                                                                        | G1/2"; G1/4"; 1/4 NPT; 7/16 - 20 UNF                                                                                                                                                                                                                        |
| Display               | LED: 4 digits x height 7 mm, range of indication -1999 + +9999, rotatable and configurable display module                                                                                                                                             |                                                                                                                                                                                                                                                             |
| Diaphragm             | stainless steel 316 L                                                                                                                                                                                                                                 | welded, stainless steel 1.4542                                                                                                                                                                                                                              |
| Contact outputs       | 1 or 2 independent PNP contacts, freely configurable                                                                                                                                                                                                  |                                                                                                                                                                                                                                                             |
| Analog outputs        | 4...20 mA (2-wire),<br>4...20 mA / 0...10V (3-wire)                                                                                                                                                                                                   | 4...20 mA (2-wire)                                                                                                                                                                                                                                          |
| Options               | -                                                                                                                                                                                                                                                     | oxygen applications                                                                                                                                                                                                                                         |
| Areas of application  |    |    |
| Preferred media       |                                                                                                                                                                      |    |



## CCP-K-230

- ✓ combination of intelligent pressure switch and digital display
- ✓ ceramic sensor
- ✓ for viscous, pasty and highly contaminated media
- ✓ 1 or 2 independent PNP contacts, freely configurable
- ✓ rotatable and configurable display module
- ✓ mechanical and environmental engineering



|                       | CCP-K-230                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...2 bar up to 0...400 bar                                                                                                                                        |
| Accuracy              | 2% FSO                                                                                                                                                                  |
| Mechanical connection | G1/4"; 1/4 NPT                                                                                                                                                          |
| Display               | LED: 4 digits x height 7 mm, range of indication -1999 + +9999, rotatable and configurable display module                                                               |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                           |
| Contact outputs       | 1 or 2 independent PNP contacts, freely configurable                                                                                                                    |
| Analog outputs        | 4...20 mA (3-wire)                                                                                                                                                      |
| Areas of application  |   |
| Preferred media       |   |



## CCP-P-400 / CCP-K-401

- ✓ combination of intelligent pressure switch and digital display
- ✓ stainless steel (CCP-P-400) or ceramic sensor (CCP-K-401)
- ✓ 1 or 2 independent PNP contacts, freely configurable
- ✓ rotatable and configurable display module
- ✓ mechanical and environmental engineering



|                       | CCP-P-400                                                                                                                                                                                                                                             | CCP-K-401                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...100 mbar up to 0...600 bar                                                                                                                                                                                                       | -1...0 bar, from 0...400 mbar up to 0...600 bar                                                                                                                         |
| Accuracy              | 0.5% / 0.35% / 0.25% FSO                                                                                                                                                                                                                              | 0.5% FSO                                                                                                                                                                |
| Mechanical connection | G1/2"; G1/4"; 1/2 NPT; 1/4 NPT                                                                                                                                                                                                                        |                                                                                                                                                                         |
| Display               | LED: 4 digits x height 10 mm, range of indication -1999 ÷ +9999, rotatable and configurable display module                                                                                                                                            |                                                                                                                                                                         |
| Diaphragm             | stainless steel 316 L                                                                                                                                                                                                                                 | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                                                                                                           |
| Contact outputs       | 1 or 2 independent PNP contacts, freely configurable                                                                                                                                                                                                  |                                                                                                                                                                         |
| Analog outputs        | 4...20 mA (2-wire), 4...20 mA (3-wire)                                                                                                                                                                                                                |                                                                                                                                                                         |
| Options               | welded version, without seals                                                                                                                                                                                                                         | PVDF pressure port; oxygen applications                                                                                                                                 |
| Areas of application  |    |   |
| Preferred media       |                                                                                     |   |



## CCP-P-400P

- ✓ combination of intelligent pressure switch and digital display
- ✓ flush welded stainless steel sensor
- ✓ hygienic version with food compatible filling fluid (FDA approval)
- ✓ 1 or 2 independent PNP contacts, freely configurable
- ✓ measurement of media with temperatures up to 300°C
- ✓ food, pharmaceutical and medical industries



|                       | CCP-P-400P                                                                                                                                                                                                                                                  |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal pressure      | -1...0 bar, from 0...100 mbar up to 0...40 bar                                                                                                                                                                                                              |
| Accuracy              | 0.5% / 0.35% / 0.25% FSO                                                                                                                                                                                                                                    |
| Mechanical connection | G1/2" with flush sensor; G3/4"; G1" with flush sensor; clamp; various hygienic connections                                                                                                                                                                  |
| Display               | LED: 4 digits x height 10 mm, range of indication -1999 ÷ +9999, rotatable and configurable display module                                                                                                                                                  |
| Diaphragm             | stainless steel 316 L                                                                                                                                                                                                                                       |
| Contact outputs       | 1 or 2 independent PNP contacts, freely configurable                                                                                                                                                                                                        |
| Analog outputs        | 4...20 mA (2-wire), 4...20 mA (3-wire)                                                                                                                                                                                                                      |
| Options               | with cooling element up to 300°C, various types of electrical and mechanical connections                                                                                                                                                                    |
| Areas of application  |    |
| Preferred media       |                                                                                       |



# Electronic pressure switches without display

## CCP-S-4

- ✓ intelligent pressure switch
- ✓ for dry, non-aggressive gases and compressed air
- ✓ silicon sensor
- ✓ OEM version
- ✓ 1 or 2 independent PNP contacts, freely configurable
- ✓ compact durable plastic housing
- ✓ configurable via PC or programming device P6
- ✓ mechanical and environmental engineering, HVAC, pneumatics



|                       | CCP-S-4                                                                           |
|-----------------------|-----------------------------------------------------------------------------------|
| Nominal pressure      | -1 ... 0 bar, from 0...1 bar up to 0...10 bar                                     |
| Accuracy              | 1% FSO                                                                            |
| Mechanical connection | G1/8" internal, M5 internal                                                       |
| Diaphragm             | silicon, RTV                                                                      |
| Contact outputs       | 1 or 2 independent PNP contacts, freely configurable                              |
| Analog outputs        | 1...5V (3-wire)                                                                   |
| Areas of application  |  |
| Preferred media       |  |



## CCP-K-6

- ✓ intelligent pressure switch
- ✓ capacitive ceramic sensor
- ✓ OEM version
- ✓ 1 or 2 independent PNP contacts, freely configurable
- ✓ configurable via PC or programming device P6
- ✓ mechanical and environmental engineering, hydraulics



|                       | CCP-K-6                                                                              |
|-----------------------|--------------------------------------------------------------------------------------|
| Nominal pressure      | from 0...2 bar up to 0...400 bar                                                     |
| Accuracy              | 1% FSO                                                                               |
| Mechanical connection | G1/4"                                                                                |
| Diaphragm             | ceramic (96% Al <sub>2</sub> O <sub>3</sub> )                                        |
| Contact outputs       | 1 or 2 independent PNP contacts, freely configurable                                 |
| Analog outputs        | oxygen applications, oil and grease free version                                     |
| Areas of application  |  |
| Preferred media       |  |



## INDUSTRIES



plant and machine engineering



chemical and biochemical industry



energy industry



renewable energy



semiconductor industry /  
cleanroom technology



HVAC



hydraulics



refrigeration



calibration techniques



laboratory techniques



medical technology



food and beverage



mobile hydraulics



oil and gas industry



pharmaceutical industry



marine / shipbuilding / offshore



heavy industry



environmental industry



packaging and paper industry

## MEDIA



sewage



aggressive media



colours



gases



fuels and oils



pasty and viscous media



oxygen



water







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