

# NIPRESS D

PRESSURE SWITCHES, PRESSURE TRANSMITTERS  
AND DIFFERENTIAL PRESSURE TRANSMITTERS



5 YEARS WARRANTY

**PIVETTO**

PRESSURE SENSORS



## PRESSURE SWITCHES

- Devices with or without display
  - Measuring range:  
-1 – 600 bar (-14.5 – 8700 psig)

The electronic pressure switches without display can be used in hydraulic and pneumatic applications for monitoring and controlling the pressure with switching outputs. The devices are easily programmable either by the optionally available PC software and programming adapter, CIS interface module or via the programming device P6.

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 intelligent switches with display are especially suitable as a pressure switch for general plant and machine construction and for the processing industry.

### APPLICATIONS

Mobile hydraulics, dry running protection, flow monitoring, grease monitoring, gas compressors, test and construction engineering, environmental engineering, HVAC, water and wastewater industry, food and beverage, pharmaceutical industry, etc.

## PRESSURE TRANSMITTERS

- Measurement of vacuum, overpressure and absolute pressure
  - Measuring range:  
-1 – 2000 bar (-14.5 – 29000 psig)

The wide selection of pressure measuring technologies, housing materials (stainless steel, plastics) provides possibility to complete almost all gas and fluid pressure measurement tasks. Their design, high overload capability and the possibility to install the units in any physical position allows for a wide range of industrial applications.



### APPLICATIONS

HVAC, hydraulics, pneumatics, mechanical and plant engineering, energy industry, food and beverage industry, pharmaceutical industry, chemical industry, oil and gas industry, pulp and paper industry, environmental engineering, etc.

## DIFFERENTIAL TRANSMITTERS

- For differential pressure measurement
  - Measuring range:  
0 – 70 bar (0 – 1015 psig)

Thanks to different sensor technologies combined with compact aluminum die-cast cases or plastic housings, our differential pressure transmitters may be used for numerous fluids and gases, e. g. for monitoring ventilation ducts, filters and fans in HVAC areas as well as for level measurement in closed pressurized tanks.



### APPLICATIONS

HVAC, mechanical and plant engineering, oil and gas industry, chemical industry, energy industry, food and beverage industry, pulp and paper industry.

## NIPRESS DK

## NIPRESS D

## NIPRESS DD

### GENERAL DESCRIPTION





In the world of industrial metrology, monitoring and controlling the pressure of fluids and gases and the processing of the measured results are high priorities. NIVELCO covers the needs of several industries and application areas with the wide selection of the NIPRESS family.

### MAIN FEATURES

- Advanced pressure measuring technologies
- Relative and absolute pressure measurement
- Devices for nearly all medium
- Several accuracy classes and several mounting options
- Excellent overload resistance
- 2- and 3-wire systems
- Devices with lots of different electrical and process connections
- Solutions for rough conditions (aggressive medium, wide temperature range, dynamic pressure changes)
- Solutions for high hygiene requirements
- Excellent price/value ratio
- 5 years warranty







# PRESSURE SWITCHES

3- / 4-wire mini compact		3- / 8-wire mini compact		TYPE
silicon inner diaphragm (piezoresistive)	ceramic inner diaphragm (piezoresistive)	stainless steel inner or flush diaphragm (piezoresistive)	welded stainless steel flush diaphragm (piezoresistive)	SENSOR
<ul style="list-style-type: none"> <li>Relative pressure measurement</li> <li>Configurable via PC or programming device</li> <li>1 or 2 PNP output</li> </ul>	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> <li>Configurable via PC or programming device</li> <li>1 or 2 PNP output</li> </ul>	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> <li>Up to 4 switch outputs</li> <li>Rotatable and configurable 4-digit LED display module</li> </ul>	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> <li>Up to 4 switch outputs</li> <li>Rotatable and configurable 4-digit LED display module</li> </ul>	FEATURES
<ul style="list-style-type: none"> <li>Ideal for pneumatic and vacuum applications</li> <li>Mechanical and plant engineering</li> <li>HVAC</li> </ul>	<ul style="list-style-type: none"> <li>Ideal for hydraulic and mechanical engineering applications for measuring, control and process technology</li> <li>Mechanical and plant engineering</li> <li>Energy industry</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical and plant engineering</li> <li>HVAC</li> <li>Environmental engineering</li> </ul>	<ul style="list-style-type: none"> <li>Ideal for viscous and pasty media</li> <li>Food and beverage industry</li> <li>Medical technology</li> <li>Pharmaceutical industry</li> </ul>	APPLICATION
<p><u>Nominal pressure gauge:</u> -1 – 10 bar (-14.5 – 145 psig)</p> <p><u>Accuracy:</u> 1%</p> <p><u>Medium temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Ambient temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Output:</u> 1 or 2 PNP switch output</p> <p><u>Process connection:</u> 1/8" BSP (internal thread)</p> <p><u>Protection:</u> IP54</p>	<p><u>Nominal pressure gauge:</u> 0 – 400 bar (0 – 5800 psig)</p> <p><u>Accuracy:</u> 1%</p> <p><u>Medium temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Ambient temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Output:</u> 1 or 2 PNP switch output</p> <p><u>Process connection:</u> 1/4" BSP</p> <p><u>Protection:</u> IP67</p>	<p><u>Nominal pressure gauge:</u> -1 – 600 bar (-14.5 – 8700 psig)</p> <p><u>Accuracy:</u> 0.25% (p ≥ 0.4 bar); 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 1, 2, 4 PNP switch output</p> <p><u>Process connection:</u> 1/4", 1/2" BSP; 3/4" BSP (with flush membrane); 1/4", 1/2" NPT; M20x1.5</p> <p><u>Protection:</u> IP65</p>	<p><u>Nominal pressure gauge:</u> -1 – 40 bar (-14.5 – 580 psig)</p> <p><u>Accuracy:</u> 0.25% (p ≥ 0.4 bar); 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 1, 2, 4 PNP switch output</p> <p><u>Process connection:</u> 1/2", 3/4", 1", 1 1/2", 2" BSP; 3/4", 1", 1 1/2", 2" TriClamp; M20x1.5; Sanitary DN25, DN40, DN50, Flange DN40, DN50, DN80, VARIVENT® DN40/50</p> <p><u>Protection:</u> IP65</p>	SPECIFICATION
<ul style="list-style-type: none"> <li>1 – 5 V analogue output</li> <li>Setting of customized switching points</li> </ul>	<ul style="list-style-type: none"> <li>Oxygen application</li> <li>Oil- and grease free application</li> <li>EPDM sealing</li> <li>Absolute pressure measuring method</li> <li>Setting of customized switching points</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia, or SIL version*</li> <li>Analogue 4 – 20 mA, 2-wire output</li> <li>Analogue 0 – 10 V, 3-wire output</li> <li>Integrated cable version</li> <li>Absolute pressure measuring method</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia, or SIL version*</li> <li>Analogue 4 – 20 mA, 2-wire output</li> <li>Analogue 0 – 10 V, 3-wire output</li> <li>Integrated cable version</li> <li>Absolute pressure measuring method</li> <li>Hastelloy C membrane</li> <li>FFKM sealing</li> <li>Filled with food compatible oil</li> </ul>	OPTIONS
				
<b>DK-100</b>	<b>DK-200</b>	<b>DK-300</b>	<b>DK-400</b>	






\*If Ex ia or SIL version is required, please request a custom quotation based on the data in the price list. Orders based on the quotation will be considered official.

# PRESSURE SWITCHES

TYPE	3- / 5-wire mini compact		5- / 8-wire mini compact	
SENSOR	welded stainless steel inner diaphragm (piezoresistive)	ceramic internal diaphragm (piezoresistive)	welded stainless steel flush diaphragm (piezoresistive)	
FEATURES	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> <li>1 or 2 PNP output</li> <li>Rotatable and configurable 4-digit LED display module</li> <li>Robust, stainless steel housing</li> </ul>	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> <li>1 or 2 PNP output</li> <li>Rotatable and configurable 4-digit LED display module</li> <li>Robust, stainless steel housing</li> </ul>	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> <li>1 or 2 PNP output</li> <li>Rotatable and configurable 4-digit LED display module</li> </ul>	
APPLICATION	<ul style="list-style-type: none"> <li>Mechanical and plant engineering</li> <li>HVAC</li> <li>Environmental engineering</li> </ul>	<ul style="list-style-type: none"> <li>For rough conditions and difficult conditions</li> <li>Mechanical and plant engineering</li> <li>Environmental engineering</li> </ul>	<ul style="list-style-type: none"> <li>Ideal for high hygienic applications</li> <li>Food and beverage industry</li> <li>Pharmaceutical industry</li> </ul>	
SPECIFICATION	<p><u>Nominal pressure gauge:</u> -1 – 600 bar (-14.5 – 8700 psig)</p> <p><u>Accuracy:</u> 0.25% (p ≥ 0.4 bar); 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 1 or 2 PNP switch output</p> <p><u>Process connection:</u> ¼", ½" BSP; ¼", ½" NPT</p> <p><u>Protection:</u> IP67</p>	<p><u>Nominal pressure gauge:</u> -1 – 600 bar (-14.5 – 8700 psig)</p> <p><u>Accuracy:</u> 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 1 or 2 PNP switch output</p> <p><u>Process connection:</u> ¼", ½" BSP; ¼", ½" NPT</p> <p><u>Protection:</u> IP67</p>	<p><u>Nominal pressure gauge:</u> -1 – 40 bar (-14.5 – 580 psig)</p> <p><u>Accuracy:</u> 0.25%; 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 1 or 2 PNP switch output</p> <p><u>Process connection:</u> ½", ¾", 1" BSP; ¾", 1", 1½", 2" TriClamp; Sanitary DN25, DN40, DN50; VARIVENT® DN40/50</p> <p><u>Protection:</u> IP67</p>	<p><u>Nominal pressure gauge:</u> -1 – 600 bar (-14.5 – 8700 psig)</p> <p><u>Accuracy:</u> 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 1, 2 or 4 PNP switch output</p> <p><u>Process connection:</u> ¼", ½", ¾" BSP; ¼", ½" NPT</p> <p><u>Protection:</u> IP65</p>
OPTIONS	<ul style="list-style-type: none"> <li>Ex ia, or SIL version*</li> <li>Analogue 4 – 20 mA, 2-wire output</li> <li>Analogue 0 – 10 V, 3-wire output</li> <li>Absolute pressure measuring method</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia, or SIL version*</li> <li>Analogue 4 – 20 mA, 2-wire output</li> <li>Analogue 0 – 10 V, 3-wire output</li> <li>PVDF process connection</li> <li>Oxygen application</li> <li>Absolute pressure measuring method</li> <li>EPDM sealing</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia version*</li> <li>High temperature version</li> <li>Analogue 4 – 20 mA, 2-wire output</li> <li>FFKM sealing</li> <li>Filled with food compatible oil</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia version*</li> <li>Analogue 4 – 20 mA, 2-wire output</li> <li>Analogue 0 – 10 V, 3-wire output</li> <li>Integral cable version</li> <li>PVDF process connection</li> <li>EPDM, NBR sealing</li> <li>Oxygen application</li> <li>Absolute pressure measuring method</li> </ul>
				
	<b>DK-500</b>	<b>DK-600</b>	<b>DK-700</b>	<b>DK-800</b>






\*If Ex ia or SIL version is required, please request a custom quotation based on the data in the price list. Orders based on the quotation will be considered official.

# PRESSURE TRANSMITTERS

2- / 3-wire mini compact					TYPE
Ceramic internal diaphragm (piezoresistive)	stainless steel internal diaphragm (piezoresistive)	stainless steel flush diaphragm (piezoresistive)	ceramic flush diaphragm (piezoresistive)	ceramic flush diaphragm (capacitive)	SENSOR
<ul style="list-style-type: none"> <li>Relative pressure measurement</li> <li>For overpressure measurement</li> </ul>	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> </ul>	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> <li>Vacuum resistant</li> <li>Sensor with low surface roughness</li> </ul>	<ul style="list-style-type: none"> <li>Relative pressure measurement</li> </ul>	<ul style="list-style-type: none"> <li>Relative pressure measurement</li> <li>Ideal for measuring small system pressure</li> </ul>	FEATURES
<ul style="list-style-type: none"> <li>Ideal for measuring aggressive mediums – gases, steam, fluids</li> <li>Not suggested to use directly with mediums tending to sedimentation, crystallization or solidification</li> <li>Mechanical and plant engineering                             <ul style="list-style-type: none"> <li>Hydraulics</li> <li>HVAC</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>For static or dynamic measurement</li> <li>Not suggested to use directly with mediums tending to sedimentation, crystallization or solidification</li> <li>Mechanical and plant engineering</li> <li>Refrigeration engineering</li> <li>Hydraulics</li> <li>Energy industry</li> <li>Environmental engineering</li> <li>HVAC</li> </ul>	<ul style="list-style-type: none"> <li>Ideal for pressure measurement of contaminated mediums and at the bottom (level)</li> <li>Food and beverage industry</li> <li>Pharmaceutical industry</li> <li>Mechanical and plant engineering</li> </ul>	<ul style="list-style-type: none"> <li>Preferred media: water, fuels and oils, sewage, aggressive media</li> <li>Ideal for more viscous or polluted media</li> <li>Mechanical and plant engineering</li> <li>Energy industry</li> <li>Medical technology</li> <li>Environmental engineering</li> </ul>	<ul style="list-style-type: none"> <li>Preferred media: water, fuels and oils, aggressive media, pasty or viscous media</li> <li>Mechanical and plant engineering</li> <li>Laboratory</li> <li>Environmental engineering</li> </ul>	APPLICATION
<p><u>Nominal pressure gauge:</u> -1 – 400 bar (-14.5 – 5800 psig)</p> <p><u>Accuracy:</u> 0.5%</p> <p><u>Medium temperature:</u> -25 °C ... +125 °C (-13 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> ¼", ½" BSP, ¼" NPT</p> <p><u>Protection:</u> IP65, IP67</p>	<p><u>Nominal pressure gauge:</u> -1 – 600 bar (-14.5 – 8700 psig)</p> <p><u>Accuracy:</u> 0.5%; 0.25% (p ≥ 0.4 bar); 0.2%; 0.1% (not in combination with SIL)</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> ¼", ½" BSP; ¼", ½" NPT; M20x1.5</p> <p><u>Protection:</u> IP65, IP67, IP68</p>	<p><u>Nominal pressure gauge:</u> -1 – 400 bar (-14.5 – 5800 psig)</p> <p><u>Accuracy:</u> 0.25% (0.4 bar ≤ p ≤ 40 bar); 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> ½", ¾", 1", 1½" BSP; 1" NPT; ¾", 1", 1½", 2" TriClamp; M20x1.5; Sanitary DN25, DN40, DN50; Flange DN25, DN50, DN80, DN100; VARIVENT® DN40/50</p> <p><u>Protection:</u> IP65, IP67, IP68</p>	<p><u>Nominal pressure gauge:</u> 0 – 60 bar (0 – 870 psig)</p> <p><u>Accuracy:</u> 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> ¾" BSP</p> <p><u>Protection:</u> IP65, IP67, IP68</p>	<p><u>Nominal pressure gauge:</u> 0 – 20 bar (0 – 290 psig)</p> <p><u>Accuracy:</u> 0.25% (p ≥ 0.6 bar); 0.5%; 1% (only with Teflon coated version)</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> 1½" BSP</p> <p><u>Protection:</u> IP65, IP67, IP68</p>	SPECIFICATION
<ul style="list-style-type: none"> <li>EPDM sealing</li> <li>M12x1 (4-pin) IP67 electrical connection, plastic</li> <li>Oil- and grease free version</li> <li>Oxygen application</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia, or SIL version*</li> <li>Integral cable version</li> <li>Absolute pressure measurement (over 0.4 bar [5.8 psig])</li> <li>EPDM, FKM, NBR sealing</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia, or SIL version*</li> <li>High temperature version</li> <li>Integral cable version</li> <li>Hygienic version</li> <li>EPDM, FFKM sealing</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia, or SIL version*</li> <li>PVDF process connection (for aggressive media)</li> <li>Integral cable version</li> <li>EPDM, NBR sealing</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia version*</li> <li>PVDF or stainless steel process connection</li> <li>99.9% aluminum oxide ceramic sensor</li> <li>Teflon coating</li> <li>Integral cable version</li> <li>Oxygen application</li> <li>EPDM, FFKM sealing</li> </ul>	OPTIONS
					
D-200	D-300	D-400	D-600	D-700	

\*If Ex ia or SIL version is required, please request a custom quotation based on the data in the price list. Orders based on the quotation will be considered official.


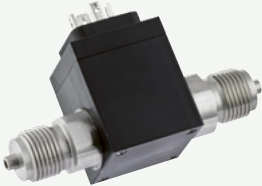


# PRESSURE TRANSMITTERS

TYPE	2- / 3-wire mini compact			2-wire compact	
SENSOR	stainless steel flush diaphragm (piezoresistive)	ceramic internal diaphragm (capacitive)	welded stainless steel internal diaphragm (capacitive)	stainless steel internal or flush diaphragm (piezoresistive)	ceramic flush diaphragm (capacitive)
FEATURES	<ul style="list-style-type: none"> <li>Relative pressure measurement</li> <li>Robust construction</li> <li>Modular construction</li> </ul>	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> <li>Ideal for measuring small system pressure</li> <li>High overpressure resistance and a high temperature and media resistance</li> </ul>	<ul style="list-style-type: none"> <li>Relative pressure measurement</li> <li>Extreme pressure resistance (up to 2000 bar [29007 psig])</li> <li>Welded thinfilm sensor</li> <li>High reliability</li> <li>Easy handling</li> </ul>	<ul style="list-style-type: none"> <li>Relative or absolute pressure measurement</li> <li>Two chamber aluminum die cast case or stainless housing</li> <li>Turn-down 1:10</li> <li>HART® communication</li> </ul>	<ul style="list-style-type: none"> <li>99.9% aluminum oxide ceramic sensor, high overpressure capability</li> <li>Relative pressure measurement</li> <li>Two chamber aluminum die cast case or stainless housing</li> <li>Turn-down 1:5</li> </ul>
APPLICATION	<ul style="list-style-type: none"> <li>Preferred media: water, fuels and oils</li> <li>Mechanical and plant engineering</li> <li>Energy industry</li> <li>Environmental engineering</li> </ul>	<ul style="list-style-type: none"> <li>Preferred media: water, gases, fuels and oils</li> <li>Mechanical and plant engineering</li> <li>Energy industry</li> <li>HVAC</li> <li>Laboratory</li> <li>Environmental engineering</li> </ul>	<ul style="list-style-type: none"> <li>Ideal for high pressure hydraulic applications</li> <li>Mechanical and plant engineering</li> <li>Laboratory</li> <li>Hydraulics</li> </ul>	<ul style="list-style-type: none"> <li>Absolute measurement of gases and steam up to 600 bar (8700 psig)</li> <li>Ideal for process, food and pharmaceutical industry</li> <li>Mechanical and plant engineering</li> <li>Chemical industry</li> <li>Paper industry</li> <li>Oil and gas industry</li> </ul>	<ul style="list-style-type: none"> <li>HART® communication</li> <li>Relative measurement of gases, steam and fluids</li> <li>Mechanical and plant engineering</li> <li>Chemical industry</li> <li>Medical technology</li> <li>Food and beverage industry</li> <li>Paper industry</li> <li>Environmental engineering</li> </ul>
SPECIFICATION	<p><u>Nominal pressure gauge:</u> 0 – 40 bar (0 – 580 psig)</p> <p><u>Accuracy:</u> 0.25% (p ≥ 0.4 bar); 0.5%; 0.1% (not in combination with SIL)</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> ¾" BSP</p> <p><u>Protection:</u> IP65, IP67, IP68</p>	<p><u>Nominal pressure gauge:</u> 0 – 20 bar (0 – 290 psig)</p> <p><u>Accuracy:</u> 0.25% (p ≥ 0.6 bar); 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> ¼", ½" BSP; ½" NPT; M20x1.5</p> <p><u>Protection:</u> IP65, IP67, IP68</p>	<p><u>Nominal pressure gauge:</u> 0 – 2000 bar (0 – 29000 psig)</p> <p><u>Accuracy:</u> 0.5%</p> <p><u>Medium temperature:</u> -40 °C ... +140 °C (-40 °F ... +284 °F)</p> <p><u>Ambient temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> ½" BSP; M20x1.5 (internal thread)</p> <p><u>Protection:</u> IP65, IP67, IP68</p>	<p><u>Nominal pressure gauge:</u> 0 – 600 bar (0 – 8700 psig) (optionally also from -1 bar)</p> <p><u>Accuracy:</u> 0.1%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +70 °C (-40 °F ... +158 °F)</p> <p><u>Output:</u> 4 – 20 mA + HART®</p> <p><u>Process connection:</u> ¼", ½", 1", 1½" BSP; ½", 1" NPT; ¾", 1", 1½", 2" TriClamp; M20x1.5; Sanitary DN25, DN40, DN50, Flange DN25, DN50, DN80, DN100, Flange 2", 3" RF, VARIVENT® DN40/50</p> <p><u>Protection:</u> IP67</p>	<p><u>Nominal pressure gauge:</u> 0 – 20 bar (0 – 290 psig)</p> <p><u>Accuracy:</u> 0.1% (p ≥ 1 bar), 0.2% (p &lt; 1 bar), 1% (Teflon coated)</p> <p><u>Medium temperature:</u> -25 °C ... +125 °C (-13 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +70 °C (-40 °F ... +158 °F)</p> <p><u>Output:</u> 4 – 20 mA + HART®</p> <p><u>Process connection:</u> ½", 1½" BSP; ½" NPT; Sanitary DN40, DN50; Flange DN25, DN50, DN80, 2", 3" RF</p> <p><u>Protection:</u> IP67</p>
OPTIONS	<ul style="list-style-type: none"> <li>Ex ia, or SIL version*</li> <li>Integral cable version</li> <li>EPDM sealing</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia version*</li> <li>99.9% aluminum oxide ceramic sensor</li> <li>Integral cable version</li> <li>PVDF process connection</li> <li>EPDM sealing</li> </ul>	<ul style="list-style-type: none"> <li>Ex ia version*</li> <li>Adjustability of span and offset</li> <li>Integral cable version</li> </ul>	<ul style="list-style-type: none"> <li>Display and operating module</li> <li>Ex ia, or Ex d version*</li> <li>High temperature version (300 °C [572 °F])</li> <li>EPDM, FFKM sealing</li> <li>Hastelloy, or Tantalum sensor</li> </ul>	<ul style="list-style-type: none"> <li>Display and operating module</li> <li>Ex ia, or Ex d version*</li> <li>PVDF process connection</li> <li>Teflon sheeting on sensor</li> <li>EPDM sealing</li> </ul>
					
	D-800	D-900	D-C00	D-A00	D-B00

\*If Ex ia or SIL version is required, please request a custom quotation based on the data in the price list. Orders based on the quotation will be considered official.



## DIFFERENTIAL TRANSMITTERS

2-wire compact	2- / 3-wire mini compact	3-wire mini compact	2- / 3-wire wall mountable	TYPE
stainless steel diaphragm (capacitive)	stainless steel internal diaphragm (piezoresistive)	stainless steel internal diaphragm (piezoresistive)	silicon inner diaphragm (piezoresistive)	SENSOR
<ul style="list-style-type: none"> <li>▪ Relative pressure measurement</li> <li>▪ Aluminum die cast housing</li> <li>▪ Turn-down 1:10</li> <li>▪ HART® communication</li> </ul>	<ul style="list-style-type: none"> <li>▪ Relative pressure measurement</li> <li>▪ Can be pressurized on both sides with fluids or gases</li> <li>▪ Mechanical robust and reliable at dynamic pressure as well as shock and vibration</li> <li>▪ Differential pressure wet/wet</li> </ul>	<ul style="list-style-type: none"> <li>▪ Two stainless steel internal diaphragm</li> <li>▪ Relative pressure measurement</li> <li>▪ Display and process connection</li> <li>▪ Up to 2 switch outputs</li> </ul>	<ul style="list-style-type: none"> <li>▪ Relative pressure measurement</li> <li>▪ Can be used in 2- or 3-wire system</li> <li>▪ Wall-mounted</li> </ul>	FEATURES
<ul style="list-style-type: none"> <li>▪ Differential pressure measurement of closed, pressurized tanks</li> <li>▪ Mechanical and plant engineering</li> <li>▪ Oil and gas industry</li> <li>▪ Chemical industry</li> <li>▪ Energy industry                             <ul style="list-style-type: none"> <li>▪ HVAC</li> <li>▪ Food and beverage industry</li> <li>▪ Paper industry</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Compact design</li> <li>▪ Due to its compact size, it can be installed also in tight spaces</li> <li>▪ Mechanical and plant engineering</li> <li>▪ Energy industry</li> </ul>	<ul style="list-style-type: none"> <li>▪ For differential pressure measurement of gases and fluids</li> <li>▪ Mechanical and plant engineering</li> <li>▪ Chemical industry</li> <li>▪ Energy industry</li> <li>▪ HVAC</li> <li>▪ Food and beverage industry</li> </ul>	<ul style="list-style-type: none"> <li>▪ For differential pressure measurement of gases and compressed air</li> <li>▪ Mechanical and plant engineering</li> <li>▪ HVAC</li> <li>▪ Can be used in laboratories or under industrial conditions</li> <li>▪ Ventilation and air conditioning systems</li> <li>▪ Clean room and medical technology</li> </ul>	APPLICATION
<p><u>Nominal pressure gauge:</u> 0 – 20 bar (0 – 290 psig)</p> <p><u>Accuracy:</u> 0.1%; 0.075%</p> <p><u>Medium temperature:</u> -40 °C ... +85 °C (-40 °F ... +185 °F)</p> <p><u>Ambient temperature:</u> -40 °C ... +50 °C (without display) (-40 °F ... +122 °F) -20 °C ... +50 °C (with display) (-4 °F ... +122 °F)</p> <p><u>Output:</u> 4 – 20 mA + HART®</p> <p><u>Process connection:</u> ¼" NPT (internal)</p> <p><u>Protection:</u> IP67</p>	<p><u>Nominal pressure gauge:</u> 0 – 16 bar (0 – 232 psig)</p> <p><u>Accuracy:</u> 0.5%; 1%</p> <p><u>Medium temperature:</u> -25 °C ... +125 °C (-13 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> ½" BSP; ¼" BSP (internal); 7/16" UNF DIN 3866</p> <p><u>Protection:</u> IP65</p>	<p><u>Nominal pressure gauge:</u> 0 – 70 bar (0 – 1015 psig)</p> <p><u>Accuracy:</u> 1%</p> <p><u>Medium temperature:</u> -40 °C ... +125 °C (-40 °F ... +257 °F)</p> <p><u>Ambient temperature:</u> -25 °C ... +85 °C (-13 °F ... +185 °F)</p> <p><u>Output:</u> 3-wire: 4 – 20 mA</p> <p><u>Process connection:</u> ¼", ½" BSP; ¼", ½" NPT</p> <p><u>Protection:</u> IP65</p>	<p><u>Nominal pressure gauge:</u> 0 – 1000 mbar (0 – 14 psig)</p> <p><u>Accuracy:</u> 1% (p ≥ 6 mbar); 2% (p &lt; 6 mbar)</p> <p><u>Medium temperature:</u> 0 °C ... +50 °C (+32 °F ... +122 °F)</p> <p><u>Ambient temperature:</u> 0 °C ... +50 °C (+32 °F ... +122 °F)</p> <p><u>Output:</u> 2-wire: 4 – 20 mA, 3-wire: 0 – 10 V</p> <p><u>Process connection:</u> Ø6,6 x 11 (for flexible tubes Ø6); Ø4.45 x 10 (for flexible tubes Ø4)</p> <p><u>Protection:</u> IP54</p>	SPECIFICATION
<ul style="list-style-type: none"> <li>▪ Ex ia version*</li> <li>▪ Display and operating module</li> <li>▪ Hastelloy® C-276 sensor</li> <li>▪ EPDM sealing</li> <li>▪ Special version up to 400 bar [5801 psig] static pressure</li> </ul> 	<ul style="list-style-type: none"> <li>▪ Ex ia version*</li> <li>▪ Optional plug-in indicator</li> </ul> 	<ul style="list-style-type: none"> <li>▪ Second PNP switching output</li> </ul> 	<ul style="list-style-type: none"> <li>▪ 2-line 5-digit LCD display</li> <li>▪ Automatic zero adjustment</li> <li>▪ 2x switching outputs</li> <li>▪ Square root extraction function for flow measurement</li> </ul> 	OPTIONS
DD-200	DD-300	DD-400	DD-600	

\*If Ex ia or SIL version is required, please request a custom quotation based on the data in the price list. Orders based on the quotation will be considered official.



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