

## Differential Pressure Meters / Transmitters

## Product features

- Measuring of the pressure-differences of gases
- Medium temperature: up to 60 °C
- 8 measurement ranges between 0 and 5000 Pa
- 4-20 mA two-wire transmitter
- LCD display
- IP 65 protection



The **DT700 DP / DT701 DP Differential Pressure Transmitters** are suitable for measurement differential pressure of dry non corrosive gases.

The instruments provide 4-20 mA current signal, proportional to the pressure difference connected to their pressure ports.

The **DT700 DP** presents the measured pressure value on an LCD display too, while the instrument **DT701 DP** is a version without display.

Eight different measurement ranges are available from 0 - 50 Pa up to 0 - 5000 Pa, but user defined measuring ranges are also available. The temperature of the measured medium may vary between -20°C and +60°C.

The signal to be measured can be connected to the transmitter via pneumatic tubes have 2 x Ø 4 mm inner diameter.

The die-cast Aluminium housing has IP 65 protection.

**Input parameters:**

Input signal: pressure  
 Ranges: see the table below  
 Overdrive capacity: 150 %

RANGES*	
[Pa]	
0-50	0-500
0-100	0-1000
0-250	0-2000
0-300	0-5000

\*Special ranges that differ from the above are also available upon request.

**Output parameters:**

Output signal: DC current, proportional to the measured pressure  
 Range: 4-20 mA  
 Temperature-coefficient: 500 ppm / °C  
 Supply-voltage effect: no  
 Response time: 0,5 ms (10-90 %)

**Display:**

Display: 3.5 digits, + or – sign, decimal point  
 Display unit: LCD, 12,7 mm with character height

**Power supply:**

Loop power supply voltage: 12-30 VDC

**Ambient conditions:**

Operating temperature range: see the table below  
 Relative humidity: 90 % (max., non-condensing)  
 Place of installation: outdoor

Type	Ambient temperature	Medium temperature
DT700 DP, DT701 DP	-20 °C <Ta< 60°C	-20 °C <Tp< 60°C

**Elektromagnetic compatibility (EMC):**

accordance with the standard EN 61326:2000

Immunity: -A- criterion  
 Noise emission: -A- class

**Data in general:**

Housing: aluminium alloy box  
 Process connection: 2 x Ø 4 mm pneumatic tube  
 Electrical connection: 3-pole connector DIN43650/IP 65  
 Cross-section of the connected cable: 2 x 0,25 mm<sup>2</sup> (shielded cable)  
 Dimensions: 127 x 85 x 58 mm (width x height x depth)  
 Weight: DT700 DP: 0,45 kg  
 DT701 DP: 0,4 kg  
 Protection: IP 65

Detailed information see in operating instructions. The Manufacturer maintains the right to change the technical data!