

Pressure-current converters

Product features

- Measuring of the pressure of gases
- Medium temperature: up to 50 °C
- 11 measurement ranges between 0 and 6 bar
- 4-20 mA two-wire transmitter
- TS-32, TS-35 rails mounting, 25 mm width



The **DT710 Pressure-current converters** provide 4-20 mA current signals proportional to the pressure connected to the devices input. The transmitters are available with 11 different measurement ranges.

The temperature of the medium under measurement may vary between 0 °C and 50 °C.

The medium to be measured can be connected through an Ø 4 mm pneumatic connector, located on the front cover of the converter being in a TS-32, TS-35 terminal assembly box, that can be push-mounted on a rail.

Input parameters:

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

Ranges*		
[mbar]	[bar]	[psi]
0-100	0-1	3-15
0-160	0-1,6	
0-250	0-2,5	
0-400	0-4	
0-600	0-6	

*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
 Accuracy: ±0,5 % (typically)
 Temperature-coefficient: 500 ppm / °C
 Supply-voltage effect: no
 Response time: 0,5 ms (10-90 %)

Power supply:

Loop power supply voltage: 12-30 VDC

Ambient conditions:

Operating temperature range: see the table below

Type	Ambient temperature	Medium temperature
DT710	0 °C <Ta< 50°C	0 °C <Tp< 50°C

Relative humidity: 90 % (max., non-condensing)
 Place of installation: closed area

Elektromagnetic compatibility (EMC):

accordance with the standard EN 61326:2000
 Immunity: -A- criterion
 Noise emission: -A- class

Data in general:

Housing: terminal assembly box, push-mountable on a TS-35 rail
 material: polyamide PA6.6
 Process connection: Ø 4 mm pneumatic stub
 Electrical connection: screw-fixed type connection
 Cross-section of the connected cable: 2,5 mm² (max.)
 Dimensions: 28 x 80 x 85 mm (width x height x depth)
 Weight: 0,1 kg
 Protection: IP 20

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