



## DT/D

### Pressure transducer for relative pressure

Measuring size: relative pressure

Output: 0-10 V, 4-20 mA

Highlights: stainless steel membrane



### Description

The DT/D pressure transducer measures the gauge pressure in gasiform as well as liquid medium and transforms it to a linear output signal 0-10 V or 4-20 mA. The calibration is made electronically whereby the pressure transmitter has a small total error and is extrem long term stable. The stainless steel membrane is completely vacuum-tight, extremely burst-proof and can be used with all standard media in hydraulics, pneumatics, environmental technology, process technology, semi-conductor technology and automotive engineering.

### Technical Specifications

Pressure type	relative pressure
Measurement range pressure	from 0...0,6 up to 0...1000 bar
Accuracy	±1,0% of range (0,5% BFSL), Option: ±0,5% of range (0,25% BFSL)
Response time (t90)	< 4 ms
Long-term drift	±0,1% FS
Durability	100 million load changes
Sensor	medium sided stainless steel membrane
Supply voltage analog 0-10 V	14...30 V DC
Supply voltage analog 4-20 mA	8...30 V DC
Current consumption at 0-10 V	typ. 8 mA
Current consumption at 4-20 mA	max. 25 mA
Analogue output 0-10 V	3-wire connection (load resistance > 10 kOhm)
Analogue output 4-20 mA	2-wire connection (transmitter), max. RLoad(Ohm) = (+Ub - 8 V) / 0,02 A
Electrical connection	angular connector DIN EN 175301-803 A
Isolation voltage	DC 500 V
Overload pressure limit	2
Shock load	testing according to IEC 68-2-32 / 1 m free-fall on a steel plate / 1000 g
Vibration proof	10 g (testing according to IEC 60068-2-6, under resonanc), 20 g on request
Material	Parts in contact with the medium: stainless steel 316L (= 10 bar); Parts not in contact with the medium: stainless steel 316L, HNBR, PA; Seal: NBR
Weight	80 g
Protection type	IP65



Protection class	III
Working temperature	-30...+100°C
Ambient temperature	-30...+100°C
Storage temperature	-20...+70°C
Installation	screw-in thread G1/4 inch (further on request)
Approvals	CE, UL, EAC, GL, RoHS

## Variants

Article Number			
Pressure	Non-linearity	Thread	Output pressure
<b>DT/D-IA</b>			
0...0,6 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IB</b>			
0...1 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IC</b>			
0...1,6 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-ID</b>			
0...2,5 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IF</b>			
0...6 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IG</b>			
0...10 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IH</b>			
0...16 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-II</b>			
0...25 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IJ</b>			
0...60 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IK</b>			
0...100 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IK1</b>			
0...160 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IL</b>			
0...250 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-IM</b>			
0...600 bar	±0,5% BFSL	G1/4 inch	4-20 mA



Article Number			
Pressure	Non-linearity	Thread	Output pressure
<b>DT/D-IN</b>			
0...1000 bar	±0,5% BFSL	G1/4 inch	4-20 mA
<b>DT/D-UA</b>			
0...0,6 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UB</b>			
0...1 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UC</b>			
0...1,6 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UD</b>			
0...2,5 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UF</b>			
0...6 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UG</b>			
0...10 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UH</b>			
0...16 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UI</b>			
0...25 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UJ</b>			
0...60 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UK</b>			
0...100 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UK1</b>			
0...160 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UL</b>			
0...250 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UM</b>			
0...600 bar	±0,5% BFSL	G1/4 inch	0-10 V
<b>DT/D-UN</b>			
0...1000 bar	±0,5% BFSL	G1/4 inch	0-10 V



## Accessories

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DTA/D

Adapter for pressure transmitters



Dimensional Drawing

