

Pressure Transducer

The DT/D pressure transducer measures the 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**
- **Data Sheet**

Supply voltage:	12...32V DC
Analogue output 4-20 mA:	2-wire, transmitter (RL(Ub-12V)/20 mA)
Analogue output 0-10 V:	3-wire, (RL(Ub-12V) / > 5kOhm)
Measurement range:	from 0...0,6 bar up to 0...1000 bar
Accuracy:	±0,5% (optional ±0,25%)
Total error:	±2%
Response time (10...90%):	< 1 msec.
Leakage resistance:	100 MOhm
Sensor element:	medium sided stainless steel membrane
Used materials:	CrNiCuNb stainless steel 17-4 PH, no o-ring, no silicone oil
Pressure type:	relative pressure
Overload range (bar):	2-times of measurement range
Bursting pressure (bar):	3-times of measurement range
Medium temperature range:	-40...+125°C
Ambient temperature range:	-40...+105°C
Pressure connection:	G1/4 inch form E standard, G1/2 inch adapter on request
Electrical connection:	Standard design device plug DIN 43650 BF C
Protection type:	IP65
EMC:	DIN EN 55022 and DIN EN 61000-4-3
Shock proof:	IEC 68-2-32 / 1m free-fall on a steel plate
Vibration proof:	testing according to IEC 68-2-6 and IEC 68-2-36 / 20g

Article No.	Measuring Range	Output	Connection
DT/D-IA	0...0,6 bar	4-20 mA	G1/4 inch
DT/D-IB	0...1 bar	4-20 mA	G1/4 inch
DT/D-IC	0...1,6 bar	4-20 mA	G1/4 inch
DT/D-ID	0...2,5 bar	4-20 mA	G1/4 inch
DT/D-IE	0...5 bar	4-20 mA	G1/4 inch
DT/D-IF	0...6 bar	4-20 mA	G1/4 inch
DT/D-IG	0...10 bar	4-20 mA	G1/4 inch
DT/D-IH	0...16 bar	4-20 mA	G1/4 inch
DT/D-II	0...25 bar	4-20 mA	G1/4 inch
DT/D-IJ	0...60 bar	4-20 mA	G1/4 inch
DT/D-IK	0...100 bar	4-20 mA	G1/4 inch
DT/D-IK1	0...160 bar	4-20 mA	G1/4 inch
DT/D-IL	0...250 bar	4-20 mA	G1/4 inch
DT/D-IM	0...600 bar	4-20 mA	G1/4 inch
DT/D-IN	0...1000 bar	4-20 mA	G1/4 inch
DT/D-UA	0...0,6 bar	0-10 V	G1/4 inch
DT/D-UB	0...1 bar	0-10 V	G1/4 inch
DT/D-UC	0...1,6 bar	0-10 V	G1/4 inch
DT/D-UD	0...2,5 bar	0-10 V	G1/4 inch
DT/D-UE	0...5 bar	0-10 V	G1/4 inch
DT/D-UF	0...6 bar	0-10 V	G1/4 inch
DT/D-UG	0...10 bar	0-10 V	G1/4 inch
DT/D-UH	0...16 bar	0-10 V	G1/4 inch
DT/D-UI	0...25 bar	0-10 V	G1/4 inch
DT/D-UJ	0...60 bar	0-10 V	G1/4 inch
DT/D-UK	0...100 bar	0-10 V	G1/4 inch
DT/D-UK1	0...160 bar	0 - 10V	G1/4 inch
DT/D-UL	0...250 bar	0-10 V	G1/4 inch
DT/D-UM	0...600 bar	0-10 V	G1/4 inch
DT/D-UN	0...1000 bar	0-10 V	G1/4 inch