



Type SDT 02

modular @ pressure

Modular pressure transducer

Basic features

- ▶ Wetting parts and case made of high-grade Steel
- ▶ High temperature range
- ▶ Nominal pressure ranges up to 40 bar
- ▶ Relative pressure
- ▶ PC-telecontrolled parametrizable
- ▶ Wetting parts made of high-grade steel 1.4435
- ▶ Case made of high-grade steel 1.4404
- ▶ Fourfold overload
- ▶ Totally front-flush membrane
- ▶ FDA, EHEDG-conformal



Technical features

- ▶ Accuracy according to IEC 60770: 0,5 % FSO
- ▶ Long-term stable
- ▶ Short-circuit-proof + reverse voltage protected
- ▶ Functional ranges (temperature):
Medium to be measured (permanent):
-10 °C to 100 °C
Medium to be measured max. (1/2 h)
up to 140 °C
- ▶ Response Time: 40...300 ms (dependently of the change of measurement; large jump = fast, small jump = slow)
- ▶ Protection class IP 67 according to EN 60529
- ▶ M12 connector made of high-grade steel
- ▶ Adjustable attenuation
- ▶ Offset, range modifiable within the dimensions ± 25% FS
- ▶ Characteristic curve decreasing - increasing
- ▶ Current limitation

Examples of modular process connections



Varivent Triclamp Milchrohr

See data sheet process connection technology

modular @ process

Favoured fields of application are:

- ▶ Food technology
- ▶ Chemical and pharmaceutical industry
- ▶ Process measurement

Design and mode of operation

The pressure transducer SDT02 represents the basis of our well-tried pressure transducers of the SDT series.
It is available in the following mechanical Versions:

- Modular, aseptic G1"
- Process connection with polymer-free sealing system

Stand 01/2009



Technical data

Input variable (Measuring range)

Basic measuring range bar	0...0,4	0...1	0...1,6	0...2,5	0...4	0...6	0...10	0...16	0...25	0...40
Allowable overload	1,6	4	6,4	10	16	24	40	64	100	160
Turn down: Offset, range adjustment ± 25% FS variable										

Gehäusematerial

High grade steel 1.4404 (316 L)

Sensormaterial (medienberührt)

High grade steel 1.4435 (316 L) Advantages material of the food and Pharmaindustry (corrosion resistance increased)

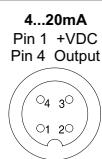
Filling medium

AK 100, FDA conform

Filling volume

ca. 0,11 cm³

Connection dimensional drawing



Output signal / auxiliary power

Standard 2-Leiter: 4 ... 20 mA / U_B = 12 ... 30 VDC

Electrical Connection

M 12-connector made of high-grade steel

Torque

Torque 30 Nm

Signal behaviour

Accuracy Standard: < ± 0,5 % of Meas. range FS (incl. hysteresis and reproducibility)

Allowable Load 450 Ohm

Current in case of error: 3,5 mA

Measuring range not reached: 3,8 mA

Meas. range exceeded 22,5 mA

Temperature error

Temperature drift zero-point: . ≤ ± 0,02 % FS/K, max. ≤ ± 0,04 % FS/K
Temperature drift meas. range: ≤ ± 0,02 % FS/K, max. ≤ ± 0,04 % FS/K

Temperature operating range

All. duration mediumtemp.: -10...100°C
Mediumtemp max.: (1/2 h) 140°C
Ambient temperature.: -20... 85°C

Ordercode

SDT02 -

		0	-	B	-	M
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Measuring range	bar	0	B	M
0...0,4	preference type	0	1	
0...1	preference type	0	2	
0...1,6	preference type	0	3	
0...2,5	preference type	0	4	
0...4	preference type	0	5	
0...6	preference type	0	6	
0...10	preference type	0	7	
0...16		0	8	
0...25		0	9	
0...40		1	1	
- 0,6...0,0		3	0	
- 1...0,0		3	1	
- 1...0,6		3	2	
- 1...1,5		3	3	
- 1...3		3	4	
- 1...5		3	5	
- 1...9		3	6	
- 1...15		3	7	

Measuring value

Relative pressure

0

Output signal

2-Leiter: 4 ... 20 mA / UB = 12 ... 30 VDC

B

Electrical Connection

Without Connection Head with plug M12x1

M