Type SDT 12

modular @ pressure

Modular pressure transducer

Basic features

- High accuracy
- High temperature range
- Nominal pressure ranges up to 40 bar
- Relative pressure
- PC-telecontrolled parametrizable
- External zeroing (Teach)
- Totally front-flush membrane
- Wetting parts made of high-grade steel 1.4435
- Case made of high-grade 1.4404 (316L)
- FDA, EHEDG-conformal

Technical features

- Accuracy according to IEC 60770: 0,2 % 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
- Alternative with Head made of high grade steel and pressure screw
- Adjustable attenuation

Design and mode of operation

The pressure transducer SDT12 represents an extension 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

Examples of modular process connections

Varivent | Triclamp | Milk-Pipe | Welding-Sleeve

See data sheet process connection technology
modular @ process

Accessories

Clamp-Housing
SDAG

Altitude Compensation-Element
(High-Grade-Steel)
DAE-E

Favoured fields of application are:

- Fill level measurement
- Food technology
- Chemical and pharmaceutical industry
- Process measurement

Stand 08/2013

seli GmbH Automatisierungstechnik • Dieselstraße 13 • 48485 Neuenkirchen • Tel. 05973 / 9474-0 • Fax 05973 / 9474-74 • E-Mail Zentrale@seli.de • Internet http://www.seli.de

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 Pharmaindustrie (corrosion resistance increased)

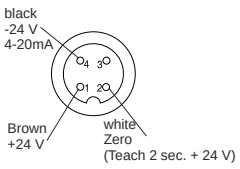
Filling medium

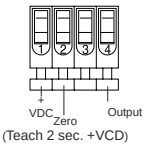
AK 100, FDA conform

Filling volume

ca. 0,11 cm³

Pin Configuration M12-plug





Output signal / auxiliary power

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

Electrical Connection

- M 12-plug
- optional: connecting head made of high grade steel
- optional: high grade steel connecting head with M12-plug

Torque

Torque 30 Nm

Signal behaviour

Accuracy	Standard: < ± 0,2 % 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

Accuracy

Temperature drift offset	<= 0,01 % FS 1°K (accuracy class 0,2%)
Span	<= 0,01 % FS 1°K
Repeat Accuracy	± 0,05% of final value
Long Term Stability	± 0,2% of final value

Temperature operating range

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

Ordercode

SDT12 - [ ][ ] 0 2 - B - [ ][ ]

Measuring range	**bar**							
	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			
Accuracy clas								
0,20%						2		
Output signal								
2-Leiter: 4 ... 20 mA / UB = 12 ... 30 VDC							B	
Electrical Connection								
Without Connection head with plug M12x1								M
Connection head made of high grade steel with screw connection								5
Capillariy-line for pressure compensation (ventilation), line length in mtr.								0
Connection head made of high grade steel with implemented M12x1 plug								6
Process connection								
Please have a look at our data sheet process connections								

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