



Type SDT 09

basic @ pressure

industry pressure transmitter

Basic features

- ▶ High accuracy
- ▶ Dipping probe completely made of high-grade steel 1.4571
- ▶ Diaphragm surface made of high-grade steel 1.4435
- ▶ Seals made of FKM
- ▶ Plastic cover for diaphragm surface

Technical features

- ▶ less temperature error
- ▶ very good linearity
- ▶ long-time stability
- ▶ accuracy at IEC 60770: 0,35% FSO
- ▶ high-grade-steel sensor
- ▶ small diameter of 27 mm
- ▶ effective range from 0...40 mbar to 0...25bar

Design and mode of operation

The dipping probe SDT 09 was conceived for for continous measuring of liquid or level and clean or / and dirty liquids.

The housing consists of high-grade-steel 1.4571, the sensor-diaphragma of 1.4435.

Seals are standardly made of FKM; on inquires other seal materials are available..

Because of the high quality of the high-grade-steel sensor the measuring characteristic is very good.

The dipping probe can be used in many different operational areas.



Accessories



Anchor clamp
ASK09



Clamp housing
SDAG-1

Favoured fields of application are:

- ▶ enviromental technology: water purification, sewage purification plant
- ▶ measuring of liquid level in water and clean or /and dirty media
- ▶ deep-measuringt in a spring and open waters
- ▶ ground water level measuring
- ▶ level monitoring in open container



Technical facts

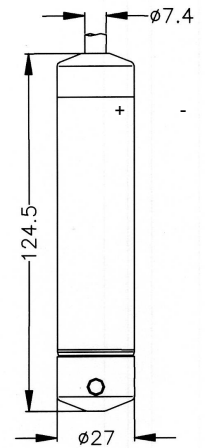
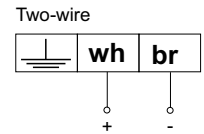
effective range in bar	0...0,04	0...0,06	0...0,1	0...0,16	0...0,25	0...0,4	0...0,6	0...1	0...1,6	0...2,5	0...4	0...6	0...10	0...16	0...25
confidence by overpressure in bar	0,2	0,2	0,5	0,5	1	1	3	3	6	6	20	20	20	60	60

Wiring diagram

precision¹ _____ Standard: $\leq \pm 0,35\%$ FSO
 nominal pressure $\leq 0,4$ bar: $\leq \pm 0,5\%$ FSO

perm. Burdens _____ $R_{max} = [(U_B - U_{Bmin}) / 0,02] \text{ Ohm}$
 influence effects _____ auxiliary energy: 0,05% FSO / 10V
 burdens: 0,05% FSO / kOhm
 long time stability _____ $\leq \pm 0,1\%$ FSO / year

storage temperature range _____ -25 °C... + 70 °C
 temperature range of measuring material _____ -10 °C... + 70 °C
 temperatur error _____ max., Middle.TK [% FSO / 10 K] $\pm 0,3$
 protective system _____ IP 68
 material: parts with medium contact _____ Chrome-nickel-Steel 1.4435
 material: housing _____ Chrome-nickel-Steel 1.4571
 seals _____ FKM
 weight _____ ca. 200 g (without cable)



Electrical facts

operating voltage _____ 12...36 V DC
 output sign _____ 4...20 mA
 connecting lead _____ two-wire
 electrical union _____ shielded cable, material: FEP
 pole protection _____ by changing the polarity it will not damage the transmitter, but it will not function

Order Code SDT09 - [] - 088 - B - H9 - []

Measuring range	bar	[]	[]
0...0,04		0	1
0...0,06		0	2
0...0,10		0	3
0...0,16		0	4
0...0,25		0	5
0...0,40		0	6
0...0,60		0	7
0...1,00		0	8
0...1,60		0	9
0...2,50		1	0
0...4,00		1	1
0...6,00		1	2
0...10,0		1	3
0...16,0		1	4
0...25,0		1	5

Output signal
 4...20 mA, two-wire technology B

Electrical connection
 cable length in metres

Order Code Accessories

Anchor Clamp ASK09
 High grade steel

Clamp housing SDAG-1
 mit Goretex-Filter und 2 PG-Verschraubungen
 with goretex-filter and two PG-screw connection