



## 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

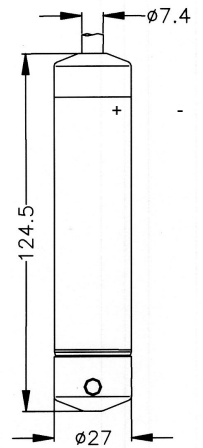
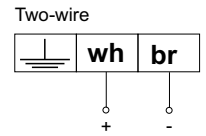


**Technical facts**

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**

precision <sup>1</sup>	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 $\leq \pm 0,1\%$ FSO / year
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

<b>Order Code</b>	<b>SDT09 - [ ] - [ ] - 0 8 - B - H 9 - [ ]</b>														
<b>Measuring range bar</b>	0...0,04	0...0,06	0...0,10	0...0,16	0...0,25	0...0,40	0...0,60	0...1,00	0...1,60	0...2,50	0...4,00	0...6,00	0...10,0	0...16,0	0...25,0
<b>Output signal</b>	4...20 mA, two-wire technology														
<b>Electrical connection</b>	cable length in metres														
<b>Order Code Accessories</b>															
<b>Anchor Clamp</b>	<b>ASK09</b>														
High grade steel															
<b>Clamp housing</b>	<b>SDAG-1</b>														
mit Goretex-Filter und 2 PG-Verschraubungen															
with goretex-filter and two PG-screw connection															

Stand 08/2013