



Accuracy max  $\pm 0.075\%$   
 Range 1 mbar  $\div$  20 bar  
 Hart communication  
 LCD backlight display  
 Settings via display  
 Fast time responsive self-diagnostics  
 ATEX

SDT is a differential pressure transmitter with performance at the top of the range and is designed for specific installations in processes where accuracy and stability over time are essential characteristics. Thanks to its technology it measures very low differential pressures from 1 mbar (10 mm H<sub>2</sub>O). The SDT is fully programmable by means of two external watertight buttons and a matrix backlight display. The programming or modification of the measurement parameters can be carried out in heavy duty ambient conditions without having access to the internal instrument parts thus maintaining the degree of protection IP67.

### Technical Feature

#### Measure range

Differential pressure Max. 0÷20bar (0÷2Mpa); Min. 0÷0.001bar (0÷100Pa)

#### Accuracy

$\pm 0.075$ ;  $\pm 0.1$  for range A

#### Analog output resolution

15 bit

#### Communication protocol

HART

#### Zero and span calibration

onboard buttons

#### Data display

backlit alphanumeric display

#### IP rating

IP67

#### Stability

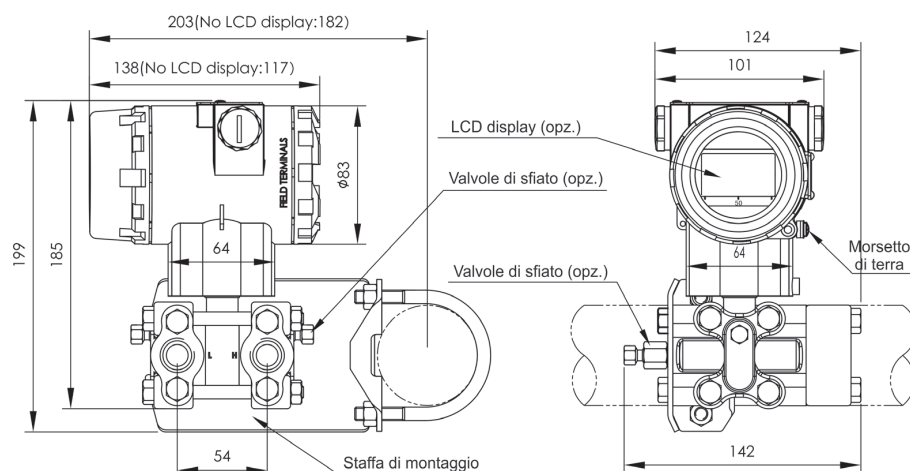
$> \pm 0.1\%FS$

#### Working temperature

$-40^{\circ} \div +85^{\circ}C$

#### Certification

Atex



## SDT

Differential pressure transmitter

IP67 - Operation temperature:  $-40 \div +85^{\circ}\text{C}$ 

Power supply: 12÷42Vdc (2-wire)

4÷20mA HART

Accuracy	
H	$\pm 0,075\%$ (for range A $\pm 0,1\%$ )
Measure range	
A	0 - 100Pa $\div$ 1kPa ( 0 - 1 $\div$ 10mbar) (0 - 10 $\div$ 100 mmH <sup>2</sup> O) - accuracy $\pm 0,1\%$
B	0 - 200Pa $\div$ 6kPa ( 0 - 2 $\div$ 60mbar) (0 - 20 $\div$ 600 mmH <sup>2</sup> O)
C	0 - 400Pa $\div$ 40kPa ( 0 - 4 $\div$ 400mbar) (0 - 40 $\div$ 4000 mmH <sup>2</sup> O)
D	0 - 2,5kPa $\div$ 250kPa ( 0 - 25 $\div$ 2500mbar) (0 - 0,25 $\div$ 25 mH <sup>2</sup> O)
E	0 - 20kPa $\div$ 2MPa ( 0 - 0,2 $\div$ 20bar) (0 - 2 $\div$ 200 mH <sup>2</sup> O)
Membrane / filling liquid	
A	SS316L / silicone oil
B	SS316L / fluorinated oil
C	Hastelloy C / silicone oil
D	Hastelloy C / fluorinated oil
E	SS316L gold plated / silicone oil
F	SS316L gold plated/ fluorinated oil
G	SS316L EFP plated / silicone oil
H	SS316L / silicone oil / SS316
T	Tantalum / silicone oil
Working pressure	
1	16MPa (range A = 7MPa)
2	25MPa (not for range A)
3	40MPa (not for range A)
Process connection	
B	1/4" - 18 NPT female SS316 thread with relief valves at the end of the flange
D	1/4" - 18 NPT female SS316 thread with relief valve on the lower part of the flange side
N	1/4" - 18 NPT female SS316 thread without relief valves
U	1/4" - 18 NPT female SS316 thread with relief valve on the upper part of the flange side
Z	Special
Sealed material	
F	Viton (FKM)
N	Perbunan (NBR)
P	Teflon (PTFE)
Special functions	
N	None
O	Degrease cleansing treatment ( just with fluorinated oil and Viton seal, max 60°C)
P	Line noise filter
Fixing bracket for panel and pipe mounting (2")	
1	SS304
2	Galvanized carbon steel
N	None
Process connection accessories	
1	SS316 oval-shaped flange with 1/2" NPT female thread
2	SS316 D-shaped connector with M20x1.5 male thread ( welded connection)
N	None
Display	
2	Backlit LCD
N	None
Certification	
A	Intrinsically Safe ATEX II 1/2G Ex ia IIC T4 Ga/Gb
D	Explosion proof ATEX II 2 G D Ex db IIC T4/T5/T6 Gb Ex tb IIIC T80°C/T90°C/T130°C - Ta = $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
N	None