



Accuracy  $\pm 0.075\%$

Measurement of relative and absolute pressure

Process connections: male or female threaded, type or for vacuum

Two wires with HART communication

Matrix backlight display

Fast time responsive self-diagnostics

ATEX

SPT is a pressure transmitter designed for use in industrial processes, very flexible in its use due to the high rangeability and the various process connections available. Thanks to its innovative technology the measurement is particularly stable over time and accurate. The internal temperature sensor corrects deviations of the measurement due to thermal variations in the process.

## Technical Feature

### Power supply

12÷42Vdc (2-wires)

### Analog output resolution

15 bit

### Communication protocol

HART

### IP rating

IP67

### Zero and span calibration

onboard buttons

### Data display

backlit alphanumeric display

### Accuracy

$\pm 0.075\%$

### Stability

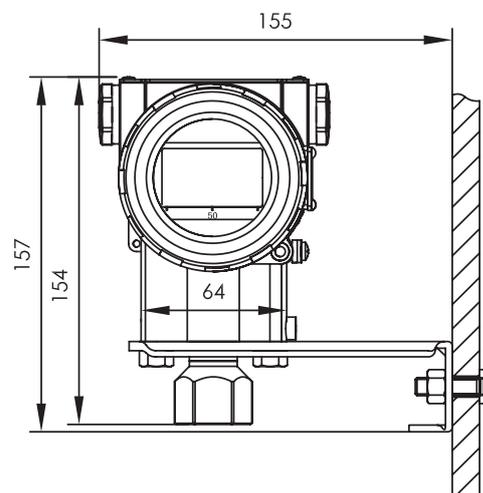
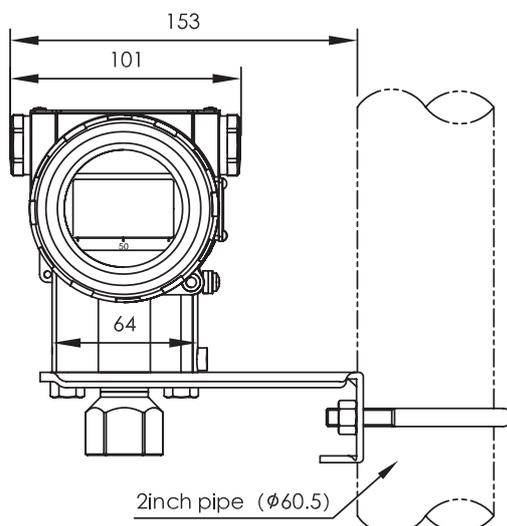
$> \pm 0.1\%FS$

### Working temperature

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

### Certification

Atex

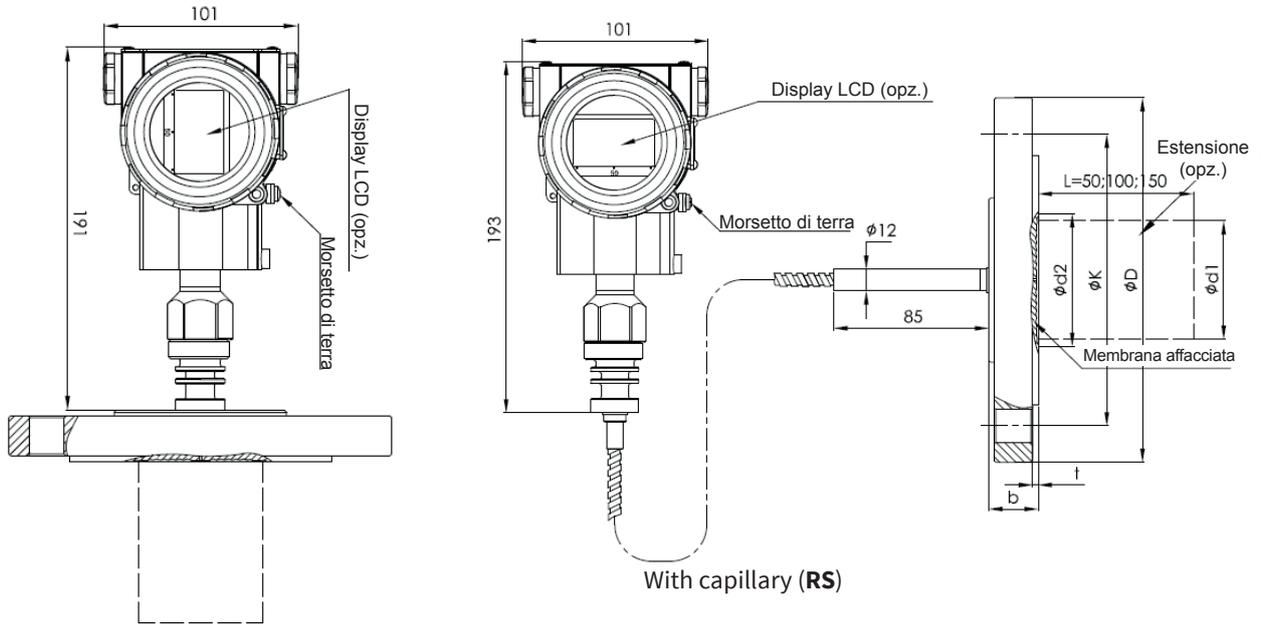


SPT HART pressure transmitter  
 IP67 - Working temperature range: -40 ÷ +85°C  
 Power supply: 12÷42Vdc (2-wire)  
 4÷20mA HART - Fully sealed welding

Accuracy	
H	± 0,075%
Measure range	
B	0 - 0,6kPa ÷ 6kPa (0 - 6 ÷ 60mbar) gauge p. / Max overload 0,2bar Range limits -6 ÷ +6kPa (-60 ÷ +60 mbar)
C	0 - 2kPa ÷ 40kPa (0 - 20 ÷ 400mbar) gauge p. / Max overload 10bar Range limits -40 ÷ +40kPa (-400 ÷ +400mbar)
D	0 - 2,5kPa ÷ 250kPa (0 - 25 ÷ 2500mbar) gauge p. / Max overload 40bar Range limits -100 ÷ +250kPa (-1000 ÷ +2500mbar)
F	0 - 30kPa ÷ 3MPa (0 - 0,3 ÷ 30bar) gauge p. / Max overload 150b Range limits -0,1 ÷ +3MPa (-1 ÷ +30bar)
G	0 - 0,1MPa ÷ 10MPa (0 - 1 ÷ 100bar) gauge p. / Max overload 200bar Range limits -0,1 ÷ +10MPa (-1 ÷ +100bar)
H	0 - 0,21MPa ÷ 21MPa (0 - 2,1 ÷ 210bar) gauge p. / Max overload 500bar Range limits -0,1 ÷ +21MPa (-1 ÷ +210bar)
I	0 - 0,4MPa ÷ 40MPa (0 - 4 ÷ 400bar) gauge p. / Max overload 500bar Range limits -0,1 ÷ +40MPa (-1 ÷ +400bar)
J	0 - 0,6MPa ÷ 60MPa (0 - 6 ÷ 600bar) gauge p. / Max overload 700bar Range limits -0,1 ÷ +60MPa (-1 ÷ +600bar)
L	0 - 2kPa ÷ 40kPa (0 - 20 ÷ 400mbar) absolute p. / Max overload 10bar Range limits 0 ÷ 40kPa (0 ÷ 400mbar)
M	0 - 2,5kPa ÷ 250kPa (0 - 25 ÷ 2500mbar) absolute p. / Max overload 40bar Range limits 0 ÷ 250kPa (0 ÷ 2500mbar)
O	0 - 30kPa ÷ 3MPa (0 - 0,3 ÷ 30bar) absolute p. / Max overload 150bar Range limits 0 ÷ 3MPa (0 ÷ 30bar)
Z	Special
Housing / membrane / filling liquid	
A	Aluminum / SS316L / silicone oil
B	Aluminum / SS316L / fluorinated oil
C	Aluminum / Hastelloy C / silicone oil
D	Aluminum / Hastelloy C / fluorinated oil
E	SS316L / SS316L / silicone oil
F	SS316L / SS316L / fluorinated oil
G	SS316L / Hastelloy C / silicone oil
H	SS316L / Hastelloy C / fluorinated oil
Process connection	
1	½" NPT female SS316 thread
2	½" NPT male SS316 thread (inner ¼" NPT female)
3	M20 x 1,5 male SS316
4	½" G male SS316 thread
5	Vacuum connection ISO 2861 SS316 (max 2,5bar)
6	¼" NPT male SS316 thread
9	Special
Special functions	
N	None
O	Degrease cleansing treatment (just with fluorinated oil)
P	Anti-lightning
Fixing bracket for panel and pipe mounting (2")	
1	SS304
2	Galvanized carbon steel
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°C ÷ +60°C
N	None

PRF

Remote flanges for pressure transmitters



Flange	Working pressure	$\Phi D$ (mm)	$\Phi K$ (mm)	$\Phi d1$ (mm) With extension	$\Phi d2$ (mm) Without extension	$\Phi d3$ (mm)	t (mm)	b (mm)	Bolt	
DN 50 - DIN 2501 (Sealing DIN 2526E)	PN1.6/4MPa	165	125	48.3	57	102	3 <sup>+0.5</sup>	20	4	M16
	PN 6.4MPa	18	135	48.3	57	102	3 <sup>+0.5</sup>	26	4	M20
	PN 10MPa	195	145	48.3	57	102	3 <sup>+0.5</sup>	28	4	M20
DN 80 - DIN 2501 (Sealing DIN 2526E)	PN1.6/4MPa	200	160	76	75	138	3 <sup>+0.5</sup>	24	8	M16
	PN 6.4MPa	215	170	76	75	138	3 <sup>+0.5</sup>	28	8	M20
	PN 10MPa	230	180	76	75	138	3 <sup>+0.5</sup>	32	8	M24
DN 2" (ANSI B 16.5 RF)	150psi	152.4	120.6	48.3	57	92.1	3 <sup>+0.5</sup>	17.4	4	M18
	300psi	165.1	127.0	48.3	57	92.1	3 <sup>+0.5</sup>	20.6	8	M18
	600psi	165.1	127.0	48.3	57	92.1	6.35	31.75	8	M18
DN 3" (ANSI B 16.5 RF)	150psi	190.5	152.4	76	75	127	3 <sup>+0.5</sup>	22.2	4	M16
	300psi	209.5	168.3	76	75	127	3 <sup>+0.5</sup>	27.0	8	M20
	600psi	209.5	168.3	76	75	127	6.35	38.05	8	M20
DN 4" (ANSI B 16.5 RF)	150psi	229	191	89	89	157	3 <sup>+0.5</sup>	30	8	M18
	300psi	255	200	89	89	157	3 <sup>+0.5</sup>	32	8	M18

**PRF** Remote flanges for pressure transmitters

Version	
<b>RN</b>	Without capillary
<b>RS</b>	With capillary
Process connection / Diaphragm material	
<b>A</b>	DN50 DIN2501 E DN2526 flange / SS316L
<b>B</b>	DN50 DIN2501 E DN2526 flange / Hastelloy C
<b>C</b>	DN50 DIN2501 E DN2526 flange / Tantalum
<b>H</b>	DN80 DIN2501 E DN2526 flange / SS316L
<b>I</b>	DN80 DIN2501 E DN2526 flange / Hastelloy C
<b>G</b>	DN80 DIN2501 E DN2526 flange / Tantalum
<b>D</b>	2" ANSI B 16.5 RF flange / SS316L
<b>E</b>	2" ANSI B 16.5 RF flange / Hastelloy C
<b>F</b>	2" ANSI B 16.5 RF flange / Tantalum
<b>K</b>	3" ANSI B 16.5 RF flange / SS316L
<b>L</b>	3" ANSI B 16.5 RF flange / Hastelloy C
<b>M</b>	3" ANSI B 16.5 RF flange / Tantalum
<b>N</b>	4" ANSI B 16.5 RF flange / SS316L
<b>O</b>	4" ANSI B 16.5 RF flange / Hastelloy C
<b>P</b>	4" ANSI B 16.5 RF flange / Tantalum
<b>Z</b>	Special
Working pressure	
<b>1</b>	PN10 / 40 - for DIN2501
<b>2</b>	PN64 - for DIN2501
<b>3</b>	PN100 - for DIN2501
<b>6</b>	150psi - for ANSI B 16.5
<b>7</b>	300psi - for ANSI B 16.5
<b>8</b>	600psi - for ANSI B 16.5 (4" excluded)
Extension / Material	
<b>F</b>	None
<b>H</b>	50mm / SS316L
<b>I</b>	100mm / SS316L
<b>G</b>	150mm / SS316L
<b>L</b>	50mm / Hastelloy C
<b>M</b>	100mm / Hastelloy C
<b>N</b>	150mm / Hastelloy C
<b>Z</b>	Special
Filling liquid	
<b>S</b>	Silicone oil (-30 ÷ +200°C)
<b>H</b>	Silicone oil for high temperature (-10 ÷ +350°C)
<b>U</b>	Silicone oil for super high temperature (-10 ÷ +400°C)
<b>V</b>	Vegetable oil (0 ÷ 250°C)
Capillary	
<b>0</b>	None
<b>1</b>	1 m
<b>2</b>	2 m
<b>3</b>	3 m
<b>4</b>	4 m
<b>5</b>	5 m
<b>6</b>	6 m
<b>8</b>	8 m
<b>9</b>	Special
Capillary protection	
<b>N</b>	None
<b>P</b>	PVC coating
Diaphragm protection (only for SS316L)	
<b>0</b>	None
<b>1</b>	EFP plating (up to 180°C)
<b>2</b>	PFA plating (up to 260°C)
<b>3</b>	PTFE coating (up to 200°C)