

## SP96FA Pressure Transmitter

### Features

- Ideal for various industrial environments and sanitary applications.
- Temperature compensation and long term thermal stability.
- Rugged with corrosion-resistant 316 stainless steel body
- Excellent accuracy and repeatability.
  - maximum error of 0.5%
- Protection class IP65 (IEC 60529).
- Piezoresistive Sensor.
- Zero & Span Adjustment
  - Turndown of 40%
- Wide measuring range.
  - (-1...1000 bar) relative/gauge and absolute
- Signal Output.
  - 4...20mA (2 wires)
- Protection against:
  - Polarity inversion
  - Voltage surges
- Available in a wide range of process connections: Threaded, Flanged or Sanitary



### Description

The SP96FA pressure transmitters are ideal for gauge and absolute pressure measurement of gases, liquids and vapors.

With a great differential in terms of design and assembly, it uses piezoresistive cell technology and has a 316 stainless steel membrane filled with silicone. These features provide excellent accuracy, stability and linearity in transmitter performance. The electronic module inserted in the Nylon housing has Zero & Span Adjustment for a new measurement range adjustment with turndown of 40%.

With 316 stainless steel body, it provides great resistance to vibration, temperature variation, among other extreme conditions in industrial environments.

The SP96FA Transmitter can be manufactured and adjusted for various pressure measurement ranges up to 1000 bar with 0.5% accuracy. It has a 12...30 Vdc supply, current output from 4 to 20 mA (two wires).

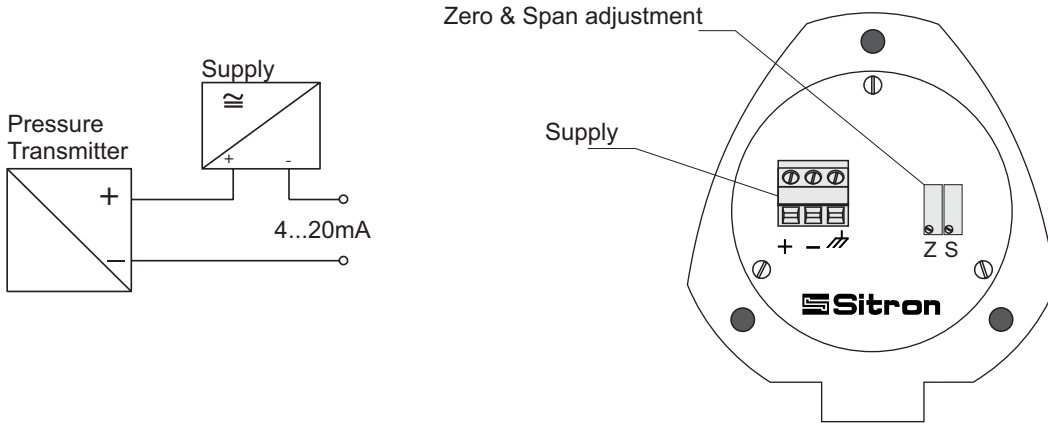
They are also available in different connection types to meet the high market demand.

## Specifications

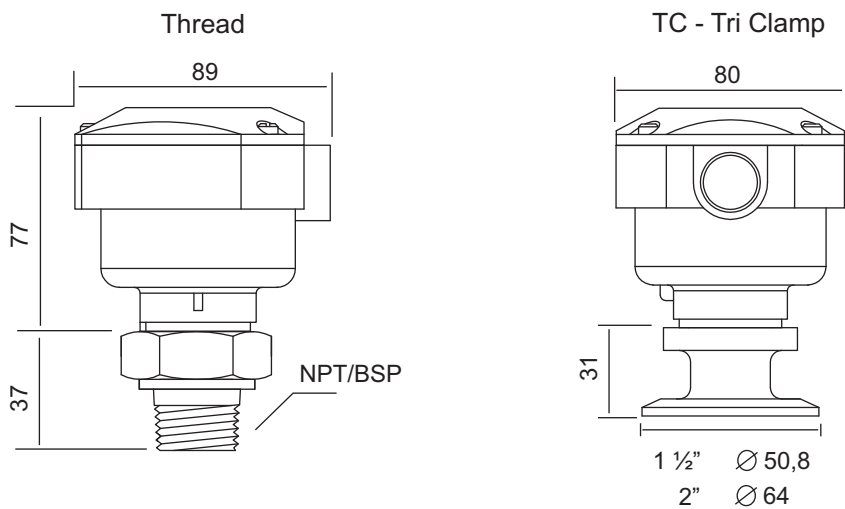
<b>Application:</b>	Pressure measurement in liquids, gases and steam
<b>Power supply:</b>	12...30Vdc
<b>Consumption:</b>	22mA max.
<b>Output:</b>	4...20mA (2 wires) with Zero and Span adjustment
<b>Input impedance (Zin):</b>	500 ohms
<b>Precision / Stability / Linearity:</b>	± 0.5%
<b>Repeatability:</b>	0.1% of SPAN
<b>Hysteresis:</b>	0.1% of SPAN
<b>sensor type:</b>	Piezoresistive sensor in stainless steel 316
<b>Measuring ranges:</b>	-1 to 1000 Bar
<b>Wetted Parts:</b>	316 stainless steel
<b>Housing material:</b>	Nylon
<b>Electrical connection:</b>	1/2" NPT cable gland / M12 connector
<b>Process connection:</b>	BSP or NPT (among other options)
<b>Body material:</b>	316 stainless steel
<b>Ambiente temp. / Storage temperature:</b>	-10~50°C / -10 to +100°C
<b>Work temperature:</b>	-10 to +70°C
<b>Over pressure:</b>	3x F.E
<b>Protections:</b>	Polarity Inversion / Electrical Surge
<b>Protection class:</b>	IP65

## Wiring diagram

### 4...20mA (2 wires)



## Dimension (mm)



## Process connection

Threaded Connections		Tri-Clamp Connection		Flange Connections <small>ANSI 150# ANSI 300#</small>	
3/4"		1 1/2"		1"	FF
1"		2"		1 1/2"	RF
1 1/2"		2 1/2"		2"	RF
2"		3"		2 1/2"	RF

## Código de Encomenda

MODELS	
SP96FA	Pressure transmitter with Nylon Housing (4~20mA 2 wires)
<b>DIMENSION</b>	
1	1/4"
2	3/8"
3	1/2"
4	3/4"
5	1"
6	1 1/2"
7	2"
9	3"
<b>PROCESS CONNECTION</b>	
B	BSP
E	FLANGE ANSI 150# 316 SS
F	FLANGE ANSI 150# PVC
K	FLANGE ANSI 150# 346 SS
N	NPT
R	SMS Female
S	SMS Male
T	TRI-CLAMP
Y	DIN - Female 316 SS
<b>HOUSING</b>	
SC	None
N1	Small Nylon
<b>ELECTRICAL CONNECTION</b>	
1	1/2" BSP
2	PC 1/2" BSP
7	PC 1/2" NPT
D	DIN Connector 43650
L	Cable length (especificar)
Y	M16 metal w/ 2m Cable
M	M12 Connector
<b>RANGE</b>	
R	Especificar
<b>SENSOR TYPE</b>	
0	None
A	316 SS Silicon (Absolute)
G	316 SS Gauge silicon
X	Others
<b>OPTION</b>	
F	Flush mounted membrane
P	PVC body and connection
<b>ACCESSORIES</b>	
0	None
I	Digital indicator
X	Cable

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