

# Industrial Pressure Transmitter

## SST 81 Series

### FEATURES

- Low Cost/Ex-stock Delivery
- Many output options
- Media Compatible
- 1.0% FS Typical Accuracy

### APPLICATIONS

- Hydraulics/Pneumatics
- Robotics/Automation
- Industrial Control
- Food and Beverage



### DESCRIPTION

The SST 81 Series from Sensormate are industrial pressure transmitters suitable for different types of media. They provide a low cost solution by utilizing the backside of a MEMs pressure die to provide resistance to semi-harsh media such as water and fluids. Further cost reduction is provided via the compact and lightweight design and housing.

The SST 81 Series are supplied with a 4 terminal cable as standard. Dynamic compensation of Linearity, temperature effects, Offset and Full Scale output is achieved via the latest ASIC technology.

The series are available in full scale ranges from 0.3 psi to 10 bar. They can be configured with custom outputs and thread fittings upon request. Please contact the factory for customization.



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## Specifications

Supply Voltage:           0-5V Output           6-28 Vdc.  
                                   0-10V Output          13-28 Vdc  
                                   4-20mA Output        9-28 Vdc (9V without load resistor)

Standard Pressure Ranges (psi)*	0.3	0.6	1.0	2.0	3.0	5.0	7.0	10.0
Over Pressure (psi)	2.5	2.5	2.5	6	15	15	15	20
Standard Pressure Ranges (bar)*	1.0	1.6	2.5	4.0	6.0	10		
Over Pressure (bar)	2.0	3.2	5.0	8.0	12	15		

Note\*: Standard Pressure Ranges can be specified in Gage or Negative Gage (vacuum). Absolute and custom ranges available on request.

Parameter Name	Value
Accuracy*	1.0% Max. BSFL
Operating Temperature	-20 to 85 °C
Compensated Temperature	-20 to 85 °C
Thermal Effects Error Band 1**	0.8 % FS from 0 to 70°C
Thermal Effects Error Band 2**	2.0% FS from -20 to 85°C
Long Term Stability	0.2% FS per annum Typical
Response Time	2 ms Typical
Vibration Sensitivity	<0.05% FS/g @ 20g peak sinusoidal, 10Hz-2kHz
Sensor Type	Silicon Piezoresistive
Wetted Materials	Nickel Plated Brass (Housing), Silicone, Silicon, Glass, PPA
Pressure Port	¼" NPT
Over Pressure	See table above
Electrical Connection	1m (36") shielded 4-conductor cable
Medial Compatibility	Non-corrosive gases and fluids
Weight	150g (including cable)

Note\*: Accuracy includes Non-Linearity, Hysterisis and Repeatability. Best fit straight line definition. For ranges less than 5 psi (low pressure) accuracy is 1.8% FS.

Note\*\*: Thermal effects include TCS and TCO. To calculate worst case accuracy Thermal Effect Errors and Accuracy must be added together.

## Connections:

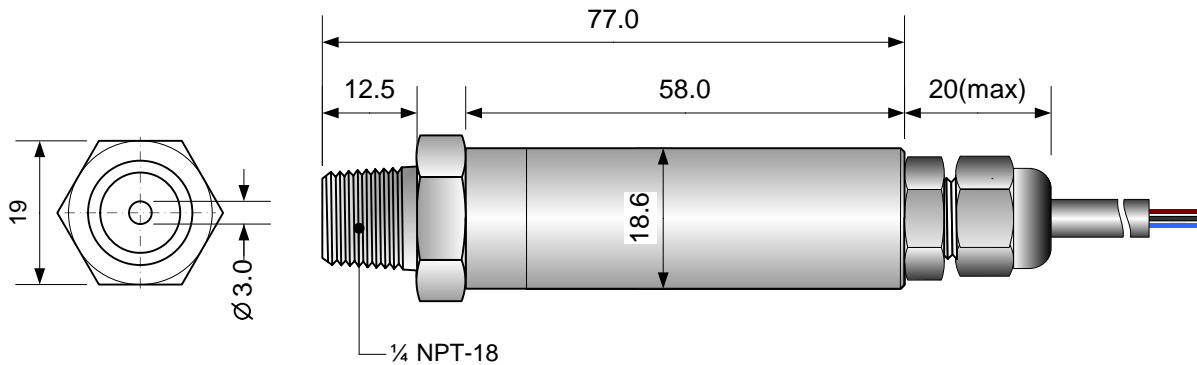
Shielded 4 Conductor Cable

Color	Description
Brown	+Ex
Black	-Ex
Blue	Output (Voltage Output Only)
White	Case connection

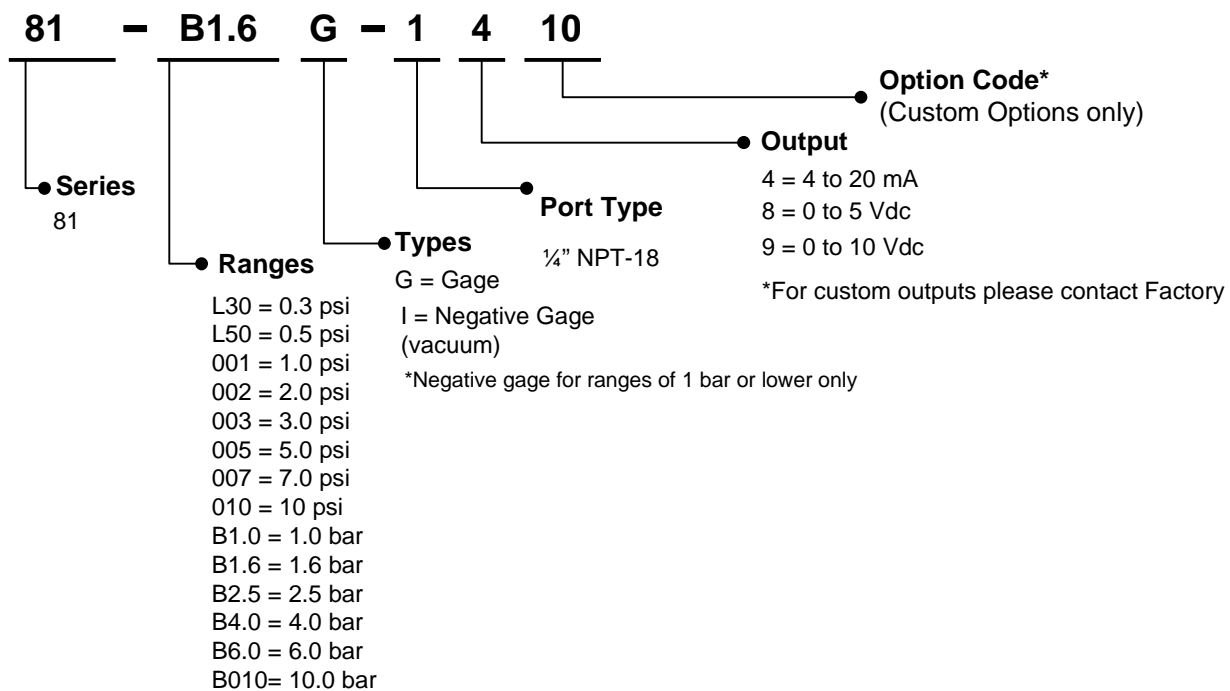


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## Dimensions (mm)



## Ordering Information



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