

Introduction :

A16-200B is based on piezoresistive silicon pressure sensors packaged in a 316L stainless steel housing. The sensing package utilizes silicon oil to transfer pressure from the 316L diaphragm to the sensing element.

A16-200B is calibrated on pressure range of 0-200Bar. The specific advantages of this sensor are: super stability and high overpressure capacity (reach to 1000Bar), which permit the sensor to be safely used within wide pressrue range (recommended from 0-70Bar to 700Bar).

Each sensor was strictly temperature compensated for both zero and span.

Features:

- High stability, High accuracy
- For high pressure range (0-70Bar...700Bar)
- Wide compensation temp.
- Compatible with corrosive media
- Standard mounting size
- Millivolt output

Applications:

- Process control
- Fresh and waste water measurements
- Pressure transmitters



Specifications of 0-200Bar with current excitation(1.5mA, 25°C)

Parameters	Min.	Typical	Max.
Accuracy (%FS)			
Non-Linearity ¹		±0.20	±0.3
Hysteresis		±0.05	±0.10
Repeatability		±0.05	±0.10
Output (mV)			
Zero ²	-2	±1	2
Span (FS)	150	180	220
Temp. characters			
Operation Temp. (°C) ³	-40		125
Compensation Temp (°C)	-10		70
Zero Temp. error (%FS) ⁴		±0.2	±0.5
Span Temp. error (%FS) ⁴		±0.75	±1.0
Thermal hysteresis (%FS)		0.1	
Long term Stability			
Zero (±%FS annual)		0.1	
Span (±%FS annual)		0.1	
Supply Current	0.5mA	1.5mA	2mA
Input Resistance	2kΩ	2.5kΩ	3kΩ
Output Resistance	2.5kΩ	3kΩ	3.7kΩ
Load Resistance⁵	5MΩ		
Insulation Resistance(100V)⁶	100MΩ		
Pressure Overload			1000Bar
Pressure Media	Liquids and Gases compatible with 316L Stainless Steel		

※Remark:

1. Best fit straight line.
2. Measured at ambient.
3. Maximum temperature range for product with standard cable and NBR ring is 105° C.

4. Over the compensated temperature range with respect to 25° C.
5. Load resistance to reduce measurement errors due to output loading.
6. Between case and sensing element.

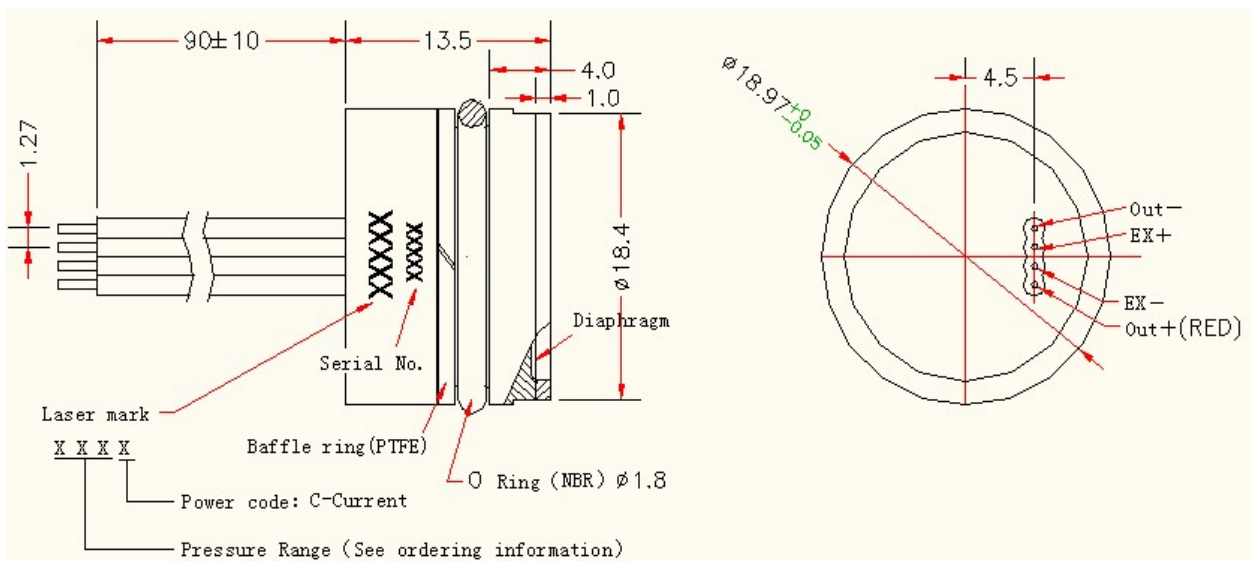
Typical performance at different pressure range under 1.5mA excitation

Range (Bar)	0-100	0-200	0-350	0-700
FS (mV)	90	180	315	630
NLH (%FS)	0.15	0.2	0.4	0.5

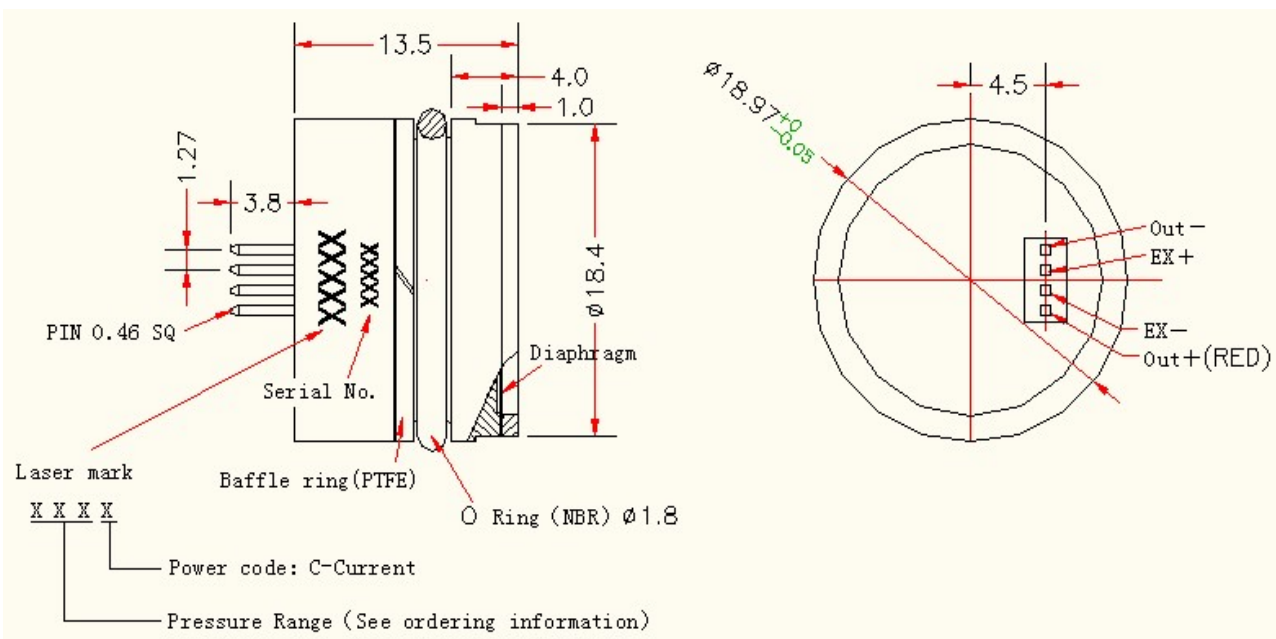
Dimensions (mm) :

Remark: Ribbon Cable or Connect Pins are optional for all models

Ribbon Cable



Pins



Ordering Information

Model	Description		
A16	Diameter 19mm O Ring mounting		
	Code	Power Supply	
	C	Constant Current	
		Code	Pressure range
		200B	0-200Bar
		XX	Special
			Code
			Electrical
			1
			Connect Pins
			2
			Ribbon Cable(90mm as default)
			X
			Special

Example:

A16	C	200B	1	
Dia 19mm	Current Supply	0-200Bar	Pins	A16C-200B1

Remark: Can provide constant voltage excitation sensors, typical output is 0-100mV @ 10VDC (0-200Bar)