

# CS11

## Compact Media Isolated Pressure Sensor

### FEATURES

- Pressures from 2 PSI up to 2,000 PSI
- Compact design
- 10mV/V output signal
- Flush diaphragm available

### GREAT FOR....

- Pressure control panels
- Low pressure monitoring
- General industrial equipment
- Pressure measurement in confined spaced



## About the CS11

The **CS11 Compact Media Isolated Pressure Sensor** features a silicone sensing element isolated by a fluid filled cavity. Multiple configurations are available with a millivolt output signal and 316L SS wetted material for compatibility in a variety of medias. With available pressure ranges from 0-2 up to 2,000 PSI, the CS11 is an economical choice in applications with minimal installation space.



## Small Profile - Excellent Performance

The CS11 Compact Media Isolated Pressure Sensor is the ideal sensor for applications requiring a **small profile with reliable, repeatable performance**. Threadless configurations with an O-ring seal are available for easy installation into pressure manifolds. Need a threaded connection? No problem! The CS11 can also be configured with a threaded process connection such as 1/4" or 1/8" Male NPT.

The CS11 not only offers a small profile but also high performance. Pressure is transferred from the 316L SS diaphragm to the sensing element via a fluid filled cavity. This fluid filled design results in a **highly stable and fast response pressure measurement over a wide operating temperature range**.

Don't see the configuration you require? Contact Core Sensor today and let us know your requirements! The CS11 features a configurable design, **allowing broad customization possibilities**.

# SPECIFICATIONS

## Performance

<b>Accuracy @ 25°C:</b> *	≤ ±0.25% BFSL ≤ ±0.5% BFSL (2 PSI)
<b>Stability (1 Year)</b>	≤ ±0.25% of FS
<b>Pressure Cycles</b>	10 million
<b>Overpressure</b>	2X minimum
<b>Burst Pressure</b>	5X or 4,000 PSI, whichever is less

\* Accuracy includes non-linearity, hysteresis and non-repeatability

## Thermal

<b>Operating Temperature:</b>	-40 to +120°C
<b>Media Temperature:</b>	-40 to +120°C
<b>Compensated Temperature:</b>	0 to +70°C
<b>Storage Temperature:</b>	-40 to +125°C
<b>TC Zero:</b>	≤ ±1.5% of FS ≤ ±2% of FS (2 PSI)
<b>TC Span:</b>	≤ ±1.5% of FS ≤ ±2% of FS (2 PSI)

For wiring information, visit [core-sensors.com/wiring](http://core-sensors.com/wiring)

## Environmental

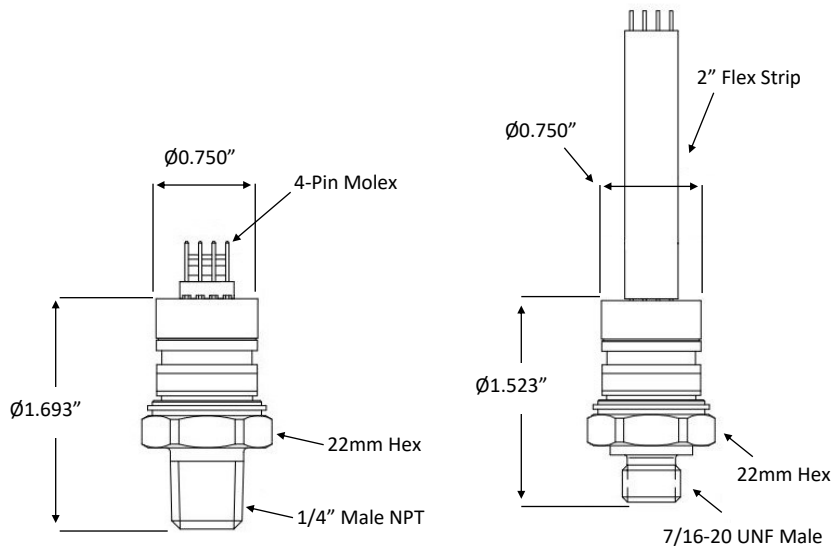
<b>EMI/RFI Protection:</b>	No
<b>Vibration:</b>	10g, 20 to 2000Hz
<b>Shock:</b>	100g, 11msec, 1/2 sine

## Electrical (Millivolt)

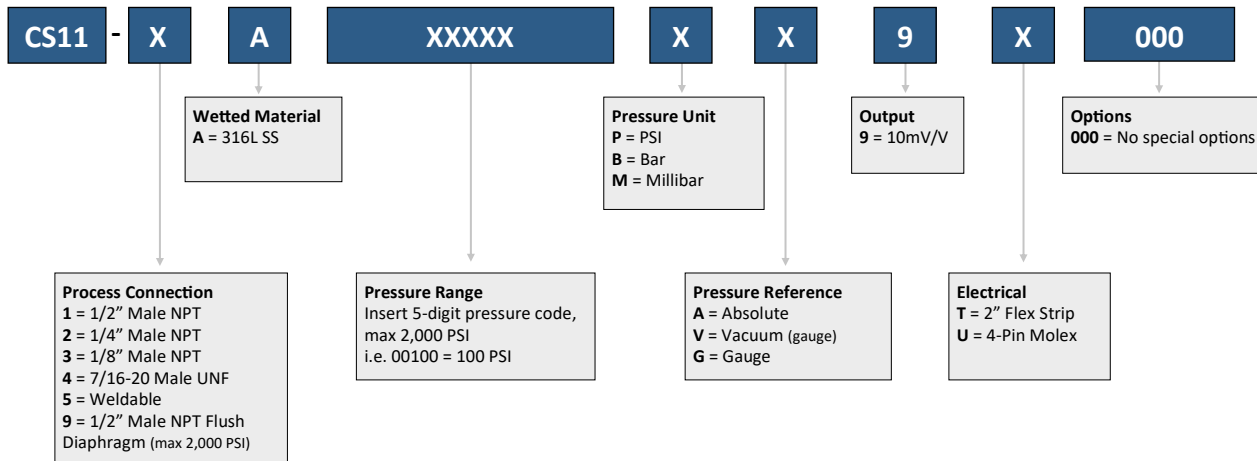
<b>Outputs:</b>	10mV/V
<b>Excitation:</b>	5VDC, typical 10VDC, max
<b>Current Consumption:</b>	< 5mA
<b>Input Impedance</b>	5000 Ohms, typical
<b>Output Impedance</b>	5000 Ohms, typical
<b>Frequency Response (min)</b>	~5kHz
<b>Zero Offset (of FS):</b>	± 2% max
<b>Span Tolerance (of FS):</b>	± 2% max

# DIMENSIONS

\*Dimensions are for reference only



# MODEL NUMBER CONFIGURATION



**Ordering Example:** CS11-2A00100PG9U000 (1/4" Male NPT, 316L SS, 0-100 PSI gauge, 10mV/V, 4-Pin Molex)  
 Not all configurations are available. Our sales team can recommend the closest available configuration based on your requirements.  
 Contact Core Sensors for configurations not shown.  
 Visit our [How To Buy](#) page or [contact us](#) for a quote.

**\*\*Disclaimer:** Unless otherwise agreed in writing, Core Sensors products are not authorized for use in applications including medical devices, life support systems, in-flight aerospace, nuclear or any other application where the product failure could result in personal injury or death.

Warranty information can be found online at [core-sensors.com](http://core-sensors.com).