

# CS12

## Capteur de pression immergeable

### FEATURES

- Pressures from 70 mBar up to 70 Bar
- Optional nose cone
- ETFE cable jacket with wide diameter vent tube
- 316L and 304SS construction
- 4-20mA or voltage output
- IP68 rated
- Low power options available for remote telemetry applications!

### GREAT FOR....

- Depth measurement
- Level monitoring
- Flood monitoring
- Ballast tanks

RoHS  
COMPLIANT

Assembled in  
USA



## About the CS12

The **CS12 Submersible Pressure Transducer** is designed for liquid level measurement applications. Stainless steel (316L and 304) construction and an ETFE cable jacket allows for installation in a wide variety of liquids. Precision tig welds and a high strength Nylon cable gland prevent liquids from entering the transducer. A wide diameter vent tube quickly equalizes the barometric pressure within the sensor body to ensure accurate level measurements. The CS12 is available in various output signals including 4-20mA loop powered for long distance transmissions and voltage outputs for low power, low current consumption.



## Reliable Continuous Liquid Level Measurement

The **CS12 Submersible Pressure Transducer** is the ideal solution for continuous liquid level measurement. This transducer was engineered with a high strength 300 series stainless steel (304 & 316L) metallic construction, corrosion resistant ETFE cable jacket, and a Nylon strain relief for compatibility in a wide range of liquids.

The CS12 Submersible Pressure Transducer **is also great for non-submersible applications where flooding is a concern.** While 100 PSI is the max rated submersion, the CS12 can be configured with pressure ranges above 100 PSI for non-submersible applications, ensuring continuous pressure measurement even during flooding events.

# SPECIFICATIONS

## Performance

<b>Accuracy @ 25°C:</b> *	$\leq \pm 0.25\%$ BFSL $\leq \pm 0.5\%$ BFSL (2 PSI & below)
<b>Stability (1 Year):</b>	$\leq \pm 0.25\%$ of FS
<b>Pressure Cycles:</b>	50 million
<b>Overpressure:</b>	2X minimum
<b>Burst Pressure:</b>	5X or 500 PSI, whichever is less
<b>Max Submersion:</b>	100 PSI

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

## Thermal

<b>Operating Temperature:</b>	-40 to +85°C
<b>Compensated Temperature:</b>	0 to +55°C
<b>Storage Temperature:</b>	-40 to +125°C
<b>TC Zero:</b>	$\leq \pm 1\%$ of FS $\leq \pm 2\%$ of FS (2 PSI & below)
<b>TC Span:</b>	$\leq \pm 1\%$ of FS $\leq \pm 2\%$ of FS (2 PSI & below)

## Environmental

<b>EMI/RFI Protection:</b>	Yes
<b>IP Rating:</b>	IP68
<b>Vibration:</b>	10g, 20 to 2000Hz
<b>Shock:</b>	100g, 11msec, 1/2 sine

## Physical

<b>Weight, excluding cable:</b>	0.50 lb. (approx.)
<b>Wetted Material:</b>	See Dimension/Materials listing
<b>Cable Conductors:</b>	22 AWG
<b>Cable Pull Strength:</b>	150 lb.

## Electrical (Current)

<b>Outputs:</b>	4-20mA
<b>Excitation:</b>	10-28VDC
<b>Current Consumption:</b>	20mA, typical
<b>Output Load:</b>	0-800 Ohms @ 10-28VDC
<b>Frequency Response (min):</b>	~250Hz
<b>Zero Offset (of FS):</b>	$\leq \pm 0.5\%$ typical $\pm 1\%$ max
<b>Span Tolerance (of FS):</b>	$\leq \pm 0.5\%$ typical $\pm 1\%$ max

## Electrical (Voltage)

<b>Outputs:</b>	1-5V
<b>Excitation:</b>	10-28VDC
<b>Current Consumption:</b>	<10mA
<b>Output Load:</b>	5K Ohms, min
<b>Frequency Response (min):</b>	~1kHz
<b>Zero Offset (of FS):</b>	$\leq \pm 0.5\%$ typical $\pm 1\%$ max
<b>Span Tolerance (of FS):</b>	$\leq \pm 0.5\%$ typical $\pm 1\%$ max

## Electrical (Ratiometric Voltage)

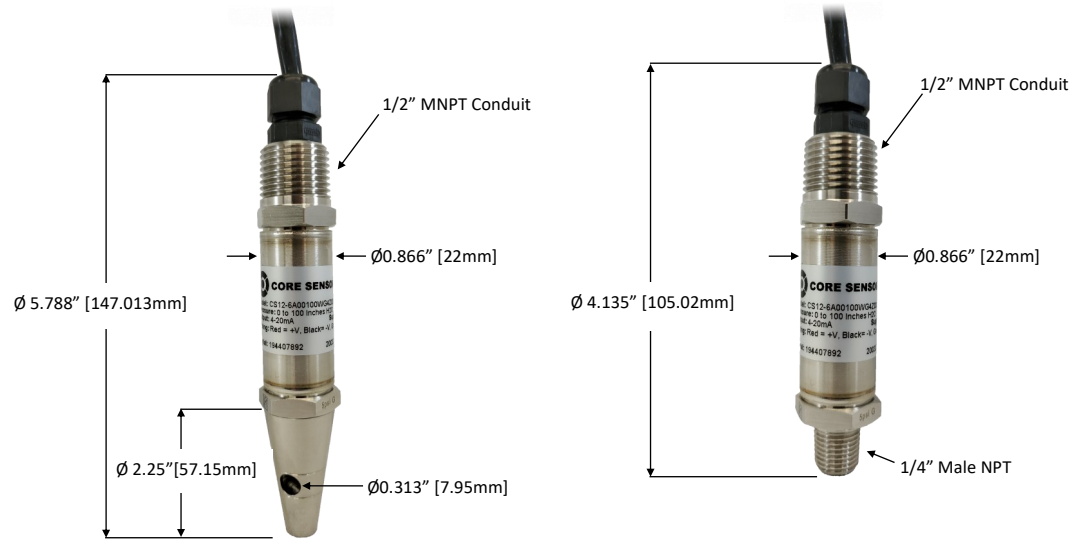
<b>Outputs:</b>	0.5-4.5V ratiometric
<b>Excitation:</b>	5VDC +/- 0.5V
<b>Current Consumption:</b>	<10mA
<b>Output Load:</b>	5K Ohms, min
<b>Frequency Response (min):</b>	~1kHz
<b>Zero Offset (of FS):</b>	$\leq \pm 0.5\%$ typical $\pm 1\%$ max
<b>Span Tolerance (of FS):</b>	$\leq \pm 0.5\%$ typical $\pm 1\%$ max

## Electrical (Low Power Voltage)

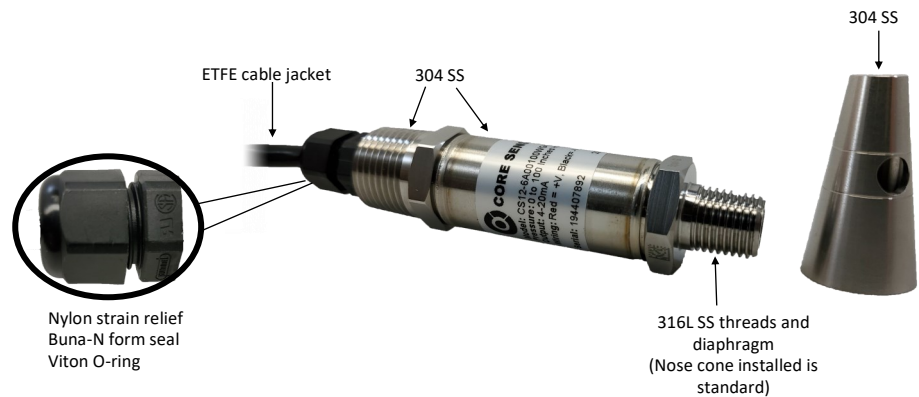
<b>Outputs:</b>	0.5-2.5V non-ratiometric
<b>Excitation:</b>	3-5VDC unregulated
<b>Current Consumption:</b>	$\leq 3$ mA
<b>Output Load:</b>	5K Ohms, min
<b>Frequency Response (min):</b>	~1kHz
<b>Zero Offset (of FS):</b>	$\leq \pm 0.5\%$ typical $\pm 1\%$ max
<b>Span Tolerance (of FS):</b>	$\leq \pm 0.5\%$ typical $\pm 1\%$ max

## DIMENSIONS

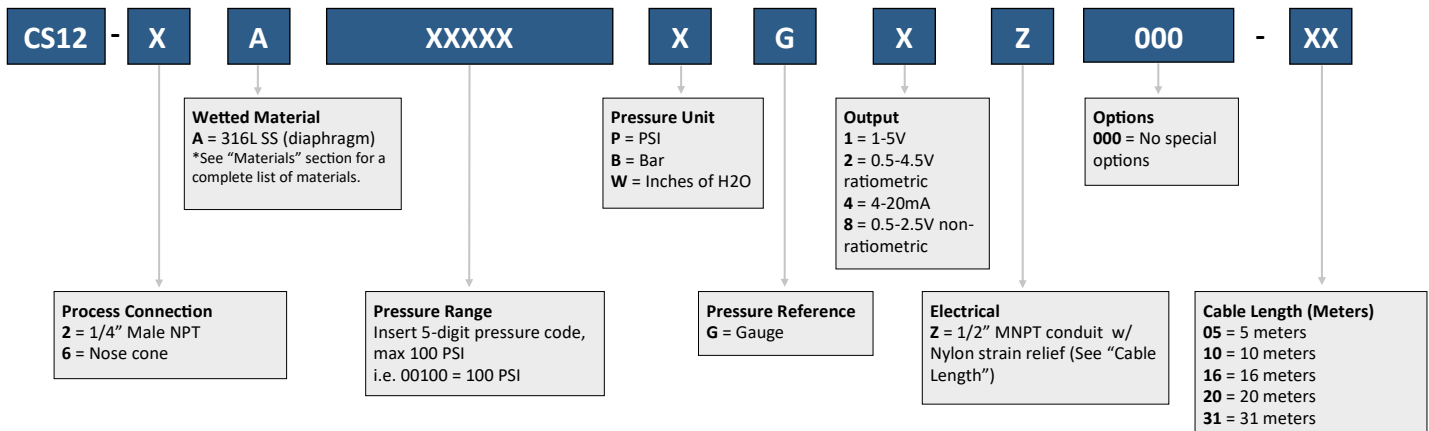
\*Dimensions are for reference only



## MATERIALS



## MODEL NUMBER CONFIGURATION



**Ordering Example:** CS12-6A00005PG4Z000-10 (Nose cone, 316L SS, 0-5 PSI gauge, 4-20mA, 1/2" MNPT conduit with nylon strain relief, 10 meters of ETFE cable)  
 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.

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