

CS12

Submersible Pressure Transducer



The CS12 OEM submersible pressure transducer is designed for liquid level measurement applications. Stainless steel (316L and 304) construction and an Extruded ETFE cable jacket allows for installation in a wide variety of liquids. Precision welds and a high strength cable gland prevent liquids from entering the electronics. 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.

FEATURES

- Pressures from 1 PSI to 100 PSI
- 316L SS diaphragm / oil filled sensor element
- Nylon strain relief, Buna-N form seal, Viton o-ring
- Wide diameter vent tube
- Removable nose cone

APPLICATIONS

- Fuel tank measurement
- Ballast tanks
- Flood monitoring
- Depth measurement

SPECIFICATIONS

Performance @ 25°C

Accuracy*	≤ ±0.25% BFSL ≤ ±0.5% BFSL (2 PSI & below)
Stability (1 Year)	≤ ±0.25% of FS
Pressure Cycles	50 million
Overpressure	2x minimum
Burst Pressure	5X or 500 PSI, whichever is less
Max Submersion	100 PSI

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

Thermal

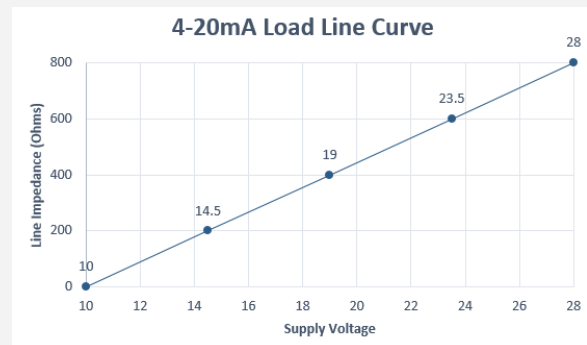
Operating Temperature	-40 to +85°C
Compensated Temperature	0 to +55°C
Storage Temperature	-40 to +125°C
TC Zero	≤ ±1% of FS ≤ ±2% of FS (2 PSI & below)
TC Span	≤ ±1% of FS ≤ ±2% of FS (2 PSI & below)

Environmental

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

Electrical

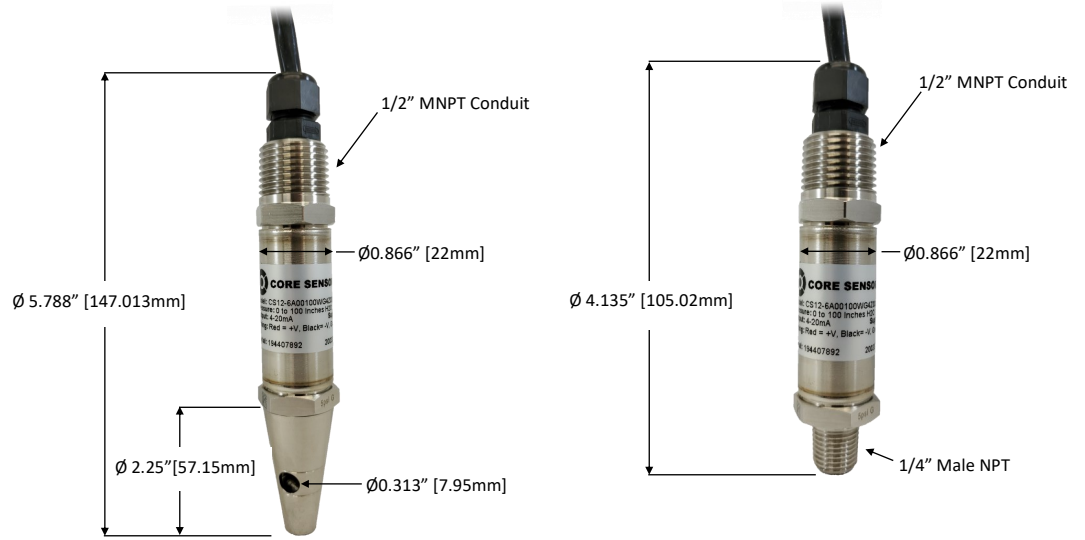
Excitation	10-28VDC (4-20mA, 1-5V) 5VDC +/- 0.5V (0.5-4.5V ratiometric)
Current Consumption	20mA, typical (current output) <10mA (voltage output)
Output Load	See load line curve below (4-20mA) 5K Ohms, min (voltage output)
Frequency Response (minimum)	~250Hz (current output) ~1kHz (voltage output)
Zero Offset (of FS)	≤ ± 0.5% typical; ± 1% max
Span Tolerance (of FS)	≤ ± 0.5% typical; ± 1% max



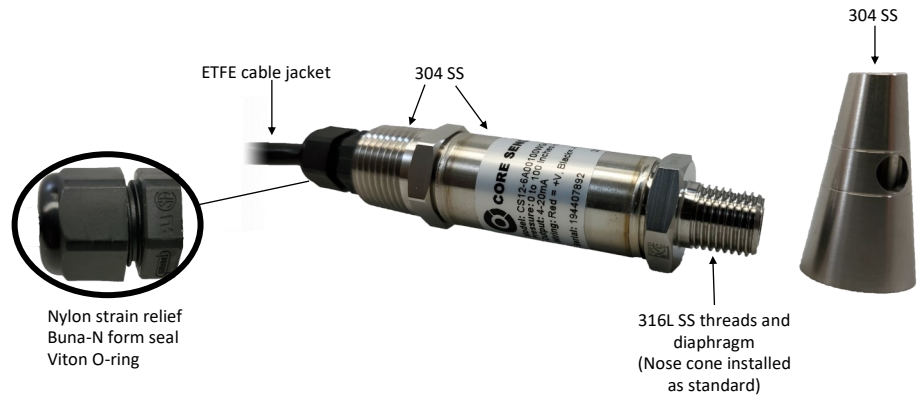
For wiring information, visit <https://www.core-sensors.com/wiring>

DIMENSIONS

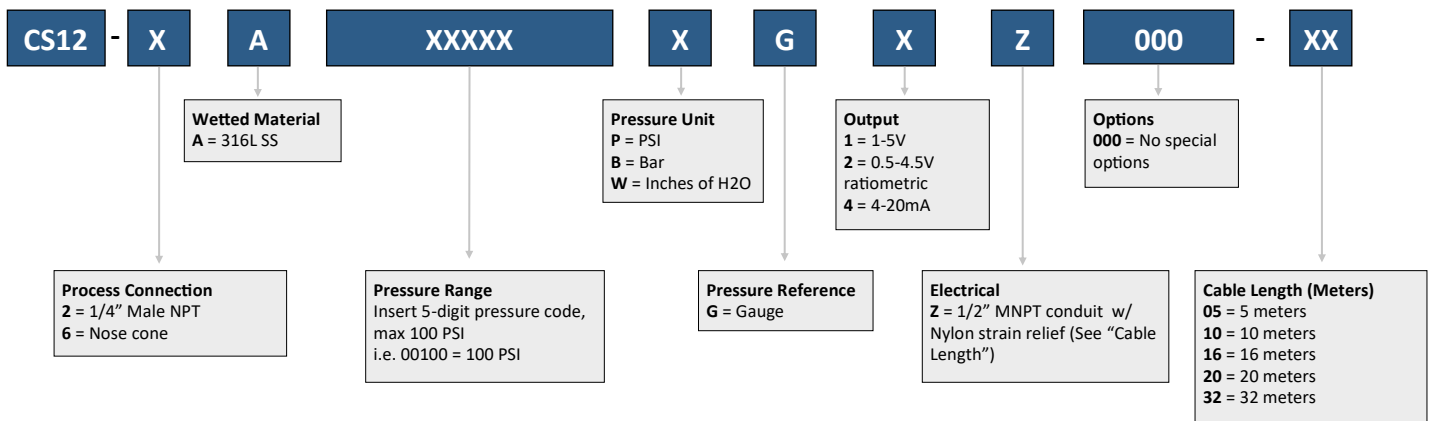
*Dimensions are for reference only



MATERIALS



MODEL NUMBER CONFIGURATION



Ordering Example: CS12-6A0005PG4Z000-10 (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.