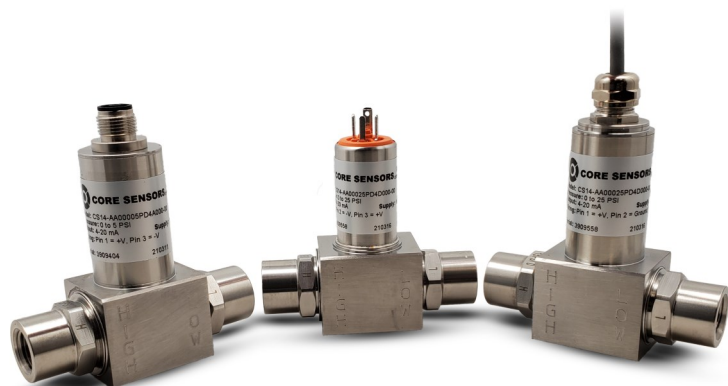


# CS14 Wet/Wet Differential Pressure Transducer



## FEATURES

- Differential pressures up to 300 PSI
- Line pressures up to 500 PSI
- Bi-directional pressure ranges available
- 316L SS diaphragm

## APPROVALS / CERTIFICATIONS

- ✓ CE

## COMMON APPLICATIONS

- Filtration
- Tank level measurement
- Cryogenic bulk tank level measurement



## SPECIFICATIONS

### Performance @ 25°C

<b>Accuracy*</b>	≤ ±0.25% BFSL ≤ ±0.5% BFSL (2 PSI & below)
<b>Stability (1 Year)</b>	≤ ±0.25% of FS
<b>Pressure Cycles</b>	4 million
<b>Max Line Pressure**</b>	500 PSI
<b>Max Differential Pressure</b>	300 PSI
<b>Overpressure***</b>	2X or 500 PSI, whichever is less, rated differential pressure
<b>Burst Pressure***</b>	3X rated differential pressure

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

\*\* Max line pressure is the highest common mode pressure that can be applied to the sensor without damage.

\*\*\* Overpressure and burst pressure are the maximum differential pressure that can be applied to the high or low side before damage to the sensor will occur.

### Thermal

<b>Operating Temperature</b>	-40 to +105°C
<b>Media Temperature</b>	-40 to 125°C
<b>Compensated Temperature</b>	0 to +55°C
<b>Storage Temperature</b>	-40 to +125°C
<b>TC Zero</b>	≤ ±1% of FS ≤ ±2% of FS (2 PSI & below)
<b>TC Span</b>	≤ ±1% of FS ≤ ±2% of FS (2 PSI & below)

### Electrical

	4-20mA	1-5V, 0-5V (3-wire)	0.5-4.5V ratiometric
<b>Excitation</b>	10-28VDC	10-28VDC	5VDC +/- 0.5V, regulated
<b>Current Consumption</b>	20mA, typical	<10mA	<10mA
<b>Output Load</b>	0-800 Ohms @ 10-28VDC	5K Ohms, min	5K Ohms, min
<b>Frequency Response (min)</b>	~250Hz	~1kHz	~1kHz
<b>Zero Offset (of FS)</b>	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max
<b>Span Tolerance (of FS)</b>	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max

### Environmental

<b>EMI/RFI Protection</b>	Yes
<b>IP Rating*</b>	IP65 minimum
<b>Vibration</b>	20g, 20 to 5000Hz
<b>Shock</b>	100g, 11msec, 1/2 sine

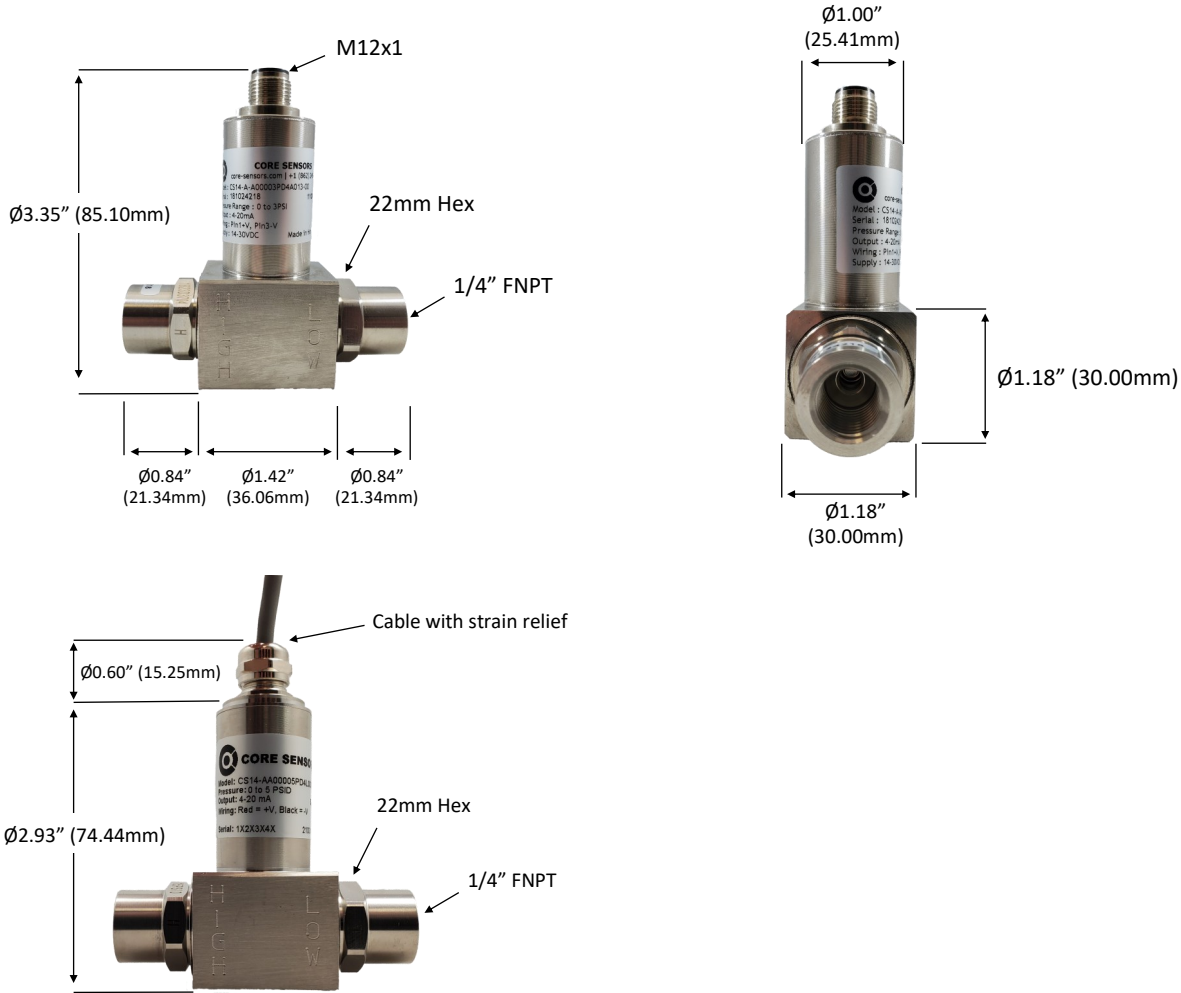
\* IP rating is dependent on electrical termination selected. Contact factory for more information.

\* IP rating applies when electrical connector is attached with the appropriate ingress protection.

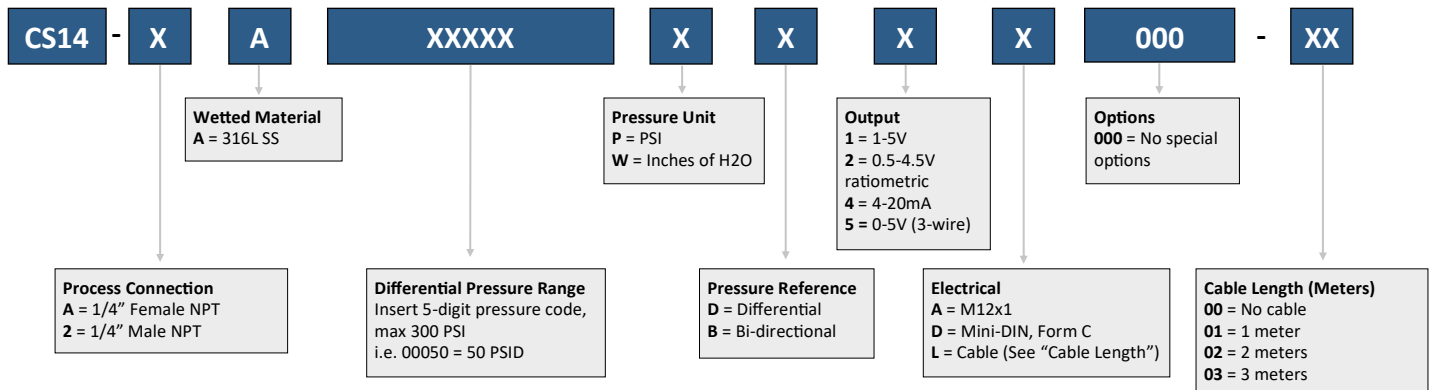
For wiring information, visit [core-sensors.com/wiring](http://core-sensors.com/wiring)

**DIMENSIONS**

\*Dimensions are for reference only



**MODEL NUMBER CONFIGURATION**



Ordering Example: CS14-AA00010PD4A000-00 (1/4" Female NPT, 316L SS, 0-10 PSI differential, 4-20mA, M12x1)  
 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.  
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Warranty information can be found online at [core-sensors.com](http://core-sensors.com).