

# CS-DHP Downhole Pressure Sensor



## FEATURES

- $\leq \pm 0.15\%$  BFSL accuracy
- Pressures from 5,000 PSI to 30,000 PSI
- High strength titanium BT9 sensing element
- Operating temperature from  $-195$  to  $+204^{\circ}\text{C}$
- Optional PT1000 temperature output

## COMMON APPLICATIONS

- Measurement While Drilling (MWD)
- Logging While Drilling (LWD)
- Oil & gas exploration
- Wellhead measurements

## SPECIFICATIONS

### Performance @ 25°C

Accuracy*	$\leq \pm 0.15\%$ BFSL
Stability (1 Year)	$\leq \pm 0.25\%$ of FS
Overpressure	1.5X rated pressure
Burst Pressure	2X rated pressure

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

### Environmental

EMI/RFI Protection	No
Linear Vibration	10g, 10 to 1000Hz
Shock	100g, 11msec, 1/2 sine
Weight (excluding cable)	35 grams, typical

### Thermal

Operating Temperature	$-195$ to $+204^{\circ}\text{C}$
TC Zero	0.025% FS per $^{\circ}\text{C}$ , typical
TC Span	0.05% FS per $^{\circ}\text{C}$ , typical

### Electrical

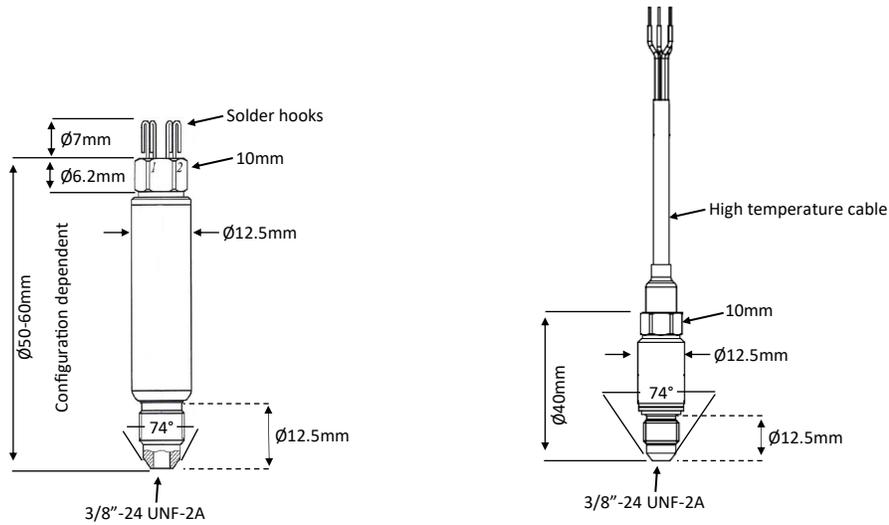
	Millivolt
Excitation*	10VDC, typical 12VDC, max
Full Scale Output @ 10VDC	100mV, min 125mV, typical 200mV, max
Isolation Voltage	500VDC
Input & Output Impedance	3.5K $\Omega$ , typical
Response Time	0.1ms, typical 0.2ms, max
Zero Offset (of FS)	$\pm 5\%$ FSO

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

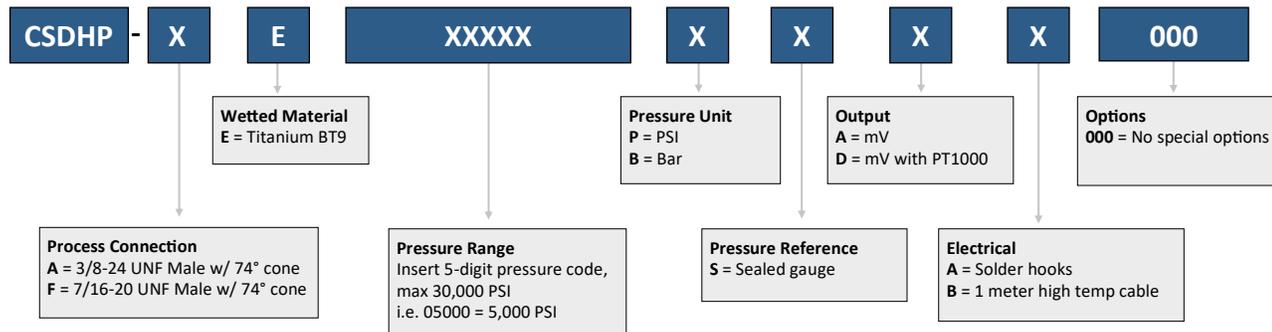
\* Sensor will operate off of any voltage up to 12VDC. Output is ratiometric to supply voltage used.

**DIMENSIONS**

\*Dimensions are for reference only  
Contact Core Sensors for an outline drawing of a specific configuration.



**MODEL NUMBER CONFIGURATION**



Ordering Example: CSDHP-AE20000PSAA000 (3/8-24 UNF Male w/ 74° cone, Titanium BT9, 0-20000 PSI sealed gauge, mV, Solder hooks)  
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.