

CS51 Non-Incendive Low Pressure Transducer



FEATURES

- Pressures from 1 PSI up to 49 PSI
See model CS50 for pressures 50 PSI & above
- Media isolated
- IP65 minimum rated
- Bi-directional pressure ranges available

APPROVALS / CERTIFICATIONS

- ✓ CSA Class I, Division 2, Groups A,B, C, D T4
- ✓ ABS (American Bureau of Shipping)
- ✓ CE

COMMON APPLICATIONS

- Natural gas compression
- Vapor recovery
- Process controls
- Oil exploration



SPECIFICATIONS

Performance @ 25°C

Accuracy*	≤ ±0.25% BFSL ≤ ±0.5% BFSL (2 PSI & below)
Stability (1 Year)	≤ ±0.25% of FS
Pressure Cycles	100 million
Overpressure	2X minimum
Burst Pressure	5X or 245 PSI, whichever is less

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

Thermal

Operating Temperature	-40 to +80°C
Operating Temperature (Electrical connection "F", DIN 43650-A)	-20 to +80°C
Media Temperature	-40 to +125°C
Media Temperature (Electrical connection "F", DIN 43650-A)	-40 to +105°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*	IP65 minimum
Vibration	10g, 20 to 2000Hz
Shock	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.

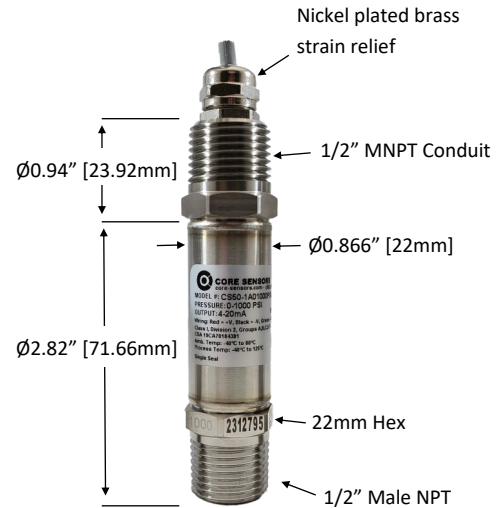
Electrical

	4-20mA	1-5V, 1-6V	0.5-4.5V ratiometric	0.5-2.5V non-ratiometric
Excitation	10-28VDC	10-28VDC	5VDC +/- 0.5V, regulated	3-5VDC, unregulated
Current Consumption	20mA, typical	<10mA	<10mA	≤3mA
Output Load	0-800 Ohms @ 10-28VDC	5K Ohms, min	5K Ohms, min	5K Ohms, min
Frequency Response (min)	~250Hz	~1kHz	~1kHz	~1kHz
Zero Offset (of FS)	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max
Span Tolerance (of FS)	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max	≤ ±0.5% typical ± 1% max

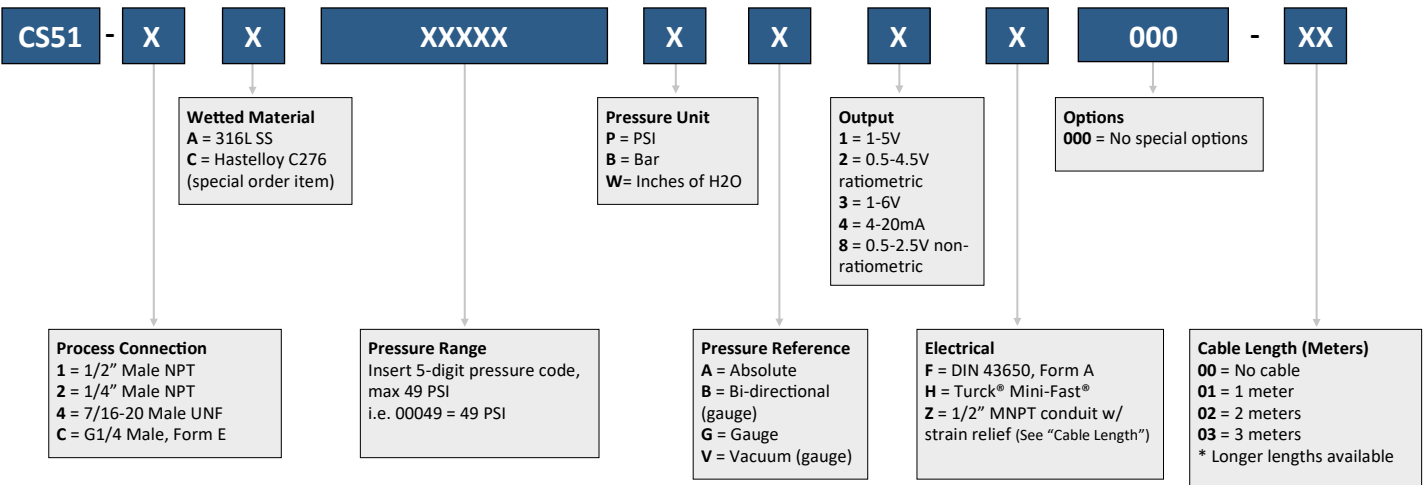
For wiring information, visit core-sensors.com/wiring

DIMENSIONS

*Dimensions are for reference only



MODEL NUMBER CONFIGURATION



Ordering Example: CS51-2A00010PG4H000-00 (1/4" Male NPT, 316L SS, 0-10 PSI gauge, 4-20mA, Turck® Mini-Fast®)
 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.



Caution must be taken when installing and operating the CS51 in known Class I, Division 2 hazardous locations. **Please review the Non-Incendive Operating Instructions prior to installation. Call Core Sensors at (862) 245-2673** if you are unsure about any of the instructions or to request a copy. Operating Instructions and Certificates of Compliance can be downloaded from the CS51 product web page at core-sensors.com.

Warranty information can be found online at core-sensors.com.