

CS13

Slim Submersible Pressure Transducer

The CS13 slim submersible pressure transducer is designed for liquid level measurement applications. A max diameter of 0.63" makes this sensor ideal for applications with limited installation space. Stainless steel construction along with Hytrel submersible cable allows for installation in a wide variety of liquids. Precision welds and a unique cable seal design prevents 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 CS13 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

- $\leq \pm 0.25\%$ BFSL accuracy
- Pressures from 1 PSI up to 100 PSI
- Slim design - Max diameter of 0.63"
- Reverse polarity and EMI protection

Applications

- Fuel tank level measurement
- Borehole
- Flood monitoring
- Depth measurement in confined spaces

SPECIFICATIONS

Performance

Accuracy*	$\leq \pm 0.25\%$ BFSL
Stability (1 Year)	$\leq \pm 0.25\%$ of FS
Pressure Cycles	50 million
Overpressure	2X, minimum
Burst Pressure	5X or 1,250 PSI, whichever is less

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

Thermal / Environmental

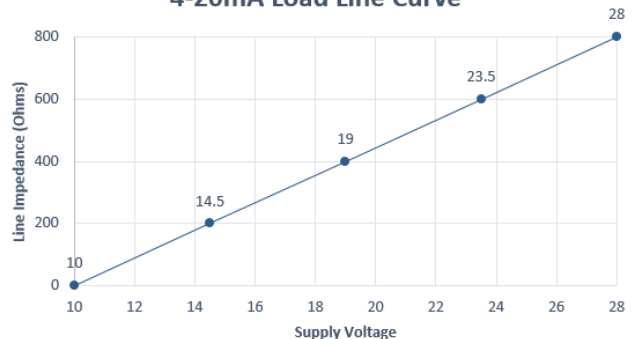
Operating Temperature	-40 to +85°C
Compensated Temperature	0 to +55°C
Storage Temperature	-40 to +100°C
TC Zero	$\leq \pm 1\%$ of FS
TC Span	$\leq \pm 1\%$ of FS
EMI/RFI Protection	Yes
IP Rating	IP68
Vibration	10g, 20 to 2000Hz
Shock	100g, 11msec, 1/2 sine

Electrical

Output	4-20mA	1-5V	0.5-4.5V ratiometric
Excitation	10-28VDC	10-28VDC	5VDC +/-0.5V
Current Consumption	20mA, typical	<10mA	<10mA
Output Load	See Load Line Curve	5K Ohms, min	5K Ohms, min
Frequency Response	~ 250Hz	~ 1kHz	~ 1kHz
Zero Offset (of FS)	$\leq \pm 0.5\%$ typical $\leq \pm 1\%$ max	$\leq \pm 0.5\%$ typical $\leq \pm 1\%$ max	$\leq \pm 0.5\%$ typical $\leq \pm 1\%$ max
Span Tolerance (of FS)	$\leq \pm 0.5\%$ typical $\leq \pm 1\%$ max	$\leq \pm 0.5\%$ typical $\leq \pm 1\%$ max	$\leq \pm 0.5\%$ typical $\leq \pm 1\%$ max

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

4-20mA Load Line Curve



MODEL NUMBER CONFIGURATION

CS13- 6 A XXXXX X G X L 000 - XX

Model Family

CS13 -Slim Submersible Pressure Transduc-

Process Connection

6 = Nose Cone

Wetted Material

A = 316L SS

Pressure Range

Insert 5-digit pressure code, max 100 PSI

(i.e. 00100 = 100 PSI)

Pressure Unit

P = PSI

B = Bar

W = Inches H2O

Pressure Reference

G = Gauge

Cable Length (Meters)

05 = 5 meters

10 = 10 meters

16 = 16 meters

20 = 20 meters

32 = 32 meters

Options

000 = No Special Options

Electrical

L = Cable (See "Cable Length")

Output

1 = 1-5V

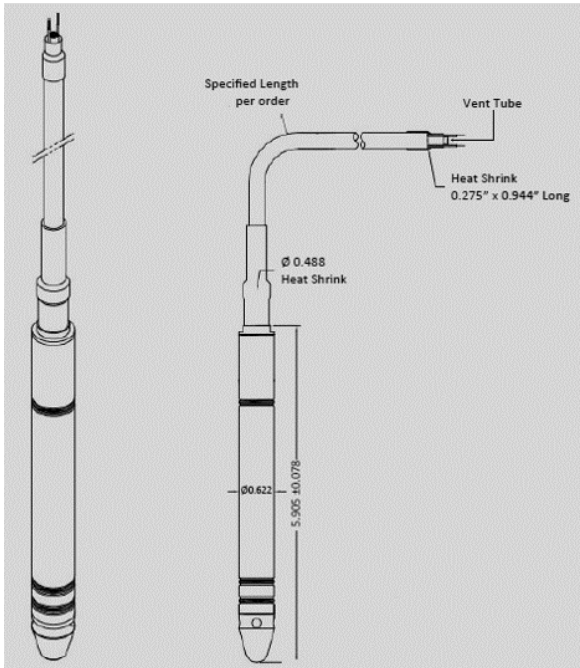
2 = 0.5-4.5V Ratiometric

4 = 4-20mA

* Ordering Example: CS13-6A00010PG1L000-10 (0-10 PSI, Nose Cone, 1-5V, Cable, 10 meters of cable, 316L SS, Gauge)

* Contact factory for custom configurations not shown

DIMENSIONS



*Dimensions are for reference only



We are committed to delivering the highest quality instrumentation on every order.

Core Sensors warrants that all items shipped will be free of defects in material and workmanship for a period of one (1) year from the date of shipment.

View complete warranty information online at www.core-sensors.com.