

CS20

Industrial Temperature Transmitter

The CS20 is an industrial temperature transmitter for fluid temperature measurement applications. Features include a 316L SS probe and thread area and a stainless steel housing, making it compatible with a wide range of process liquids and gasses. Configurable temperature ranges from -40 to +200°C are available with various probe lengths. A wide variety of standard amplified outputs and electrical connections are also available.



Features

- ≤ ±0.4% BFSL accuracy
- -40 to +200°C configurable temperature range
- 316L SS probe and thread area (special order Hastelloy C276 available)

Applications

- Gear box lubrication systems
- Hydraulic oil fluid
- Gas flow
- Water & chemical storage

SPECIFICATIONS

Performance	
Accuracy*	≤ ±0.4% BFSL
Sensor Type	RTD
Total Error at RT (of FS)	± 0.5% typical, ± 1% max
Total Error at FS (of FS)	± 2% max
Max Pressure (<2 inch probe)	7,250 PSI
Max Pressure (>2 inch probe)	2,175 PSI

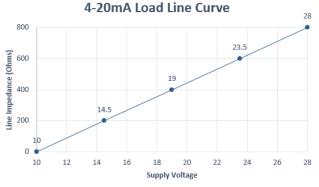
^{*} Accuracy includes non-linearity, hysteresis and non-repeatability

Thermal / Environmental			
Ambient Operating Temperature	-40 to +85°C		
Storage Temperature	-40 to +125°C		
Insulation Resistance	100M Ω (50 VDC case to pins)		
EMI/RFI Protection	Yes		
IP Rating*	IP65		
Vibration	10g, 10 to 1000Hz		

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

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 Fg	~ 1kHz



MODEL NUMBER CONFIGURATION

CS20- X X X XXX X X 000 - XX

Model Family

CS20 - Industrial Temperature Transmitter

Process Connection

1 = 1/2" NPT Male 2 = 1/4" NPT Male 4 = 7/16-20 UNF Male 5 = G1/4 Male

Probe Length

Wetted Material

A = 316L SS

C = Hastelloy C276 (Special order item. Contact factory)

Temperature Range

04A = -40 to 85°C

Cable Length (Meters)

Electrical option "L" only

00 = No cable **01 =** 1 meter **02 =** 2 meters **03 =** 3 meters

Options

000 = No Special Options

Electrical

A = M12x1

B = Deutsch DT04-4P C = Packard 3-Pin D = Mini-DIN, Form C F = DIN 43650, Form A G = 6-Pin Bendix

L = Cable (See "Cable length")

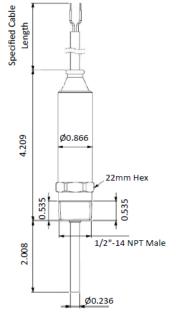
Output

1 = 1-5V

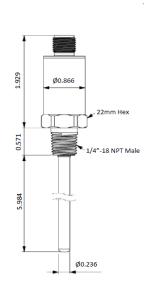
2 = 0.5-4.5V ratiometric

4 = 4-20mA

DIMENSIONS







^{*} Ordering Example: CS20-1BA01A1A000-00 (0 to 100°C, 1/2" MNPT, 1-5V, M12x1, 316L SS, 1 inch probe)

^{*} Contact factory for custom configurations not shown