

CS20 Industrial Temperature Transmitter

- Wide configurable temperature ranges from -40 to +200°C
- 316L SS probe and thread area (Hastelloy C276 available)
- Reverse polarity and EMI protection
- $\leq \pm 0.4\%$ BFSL accuracy



OVERVIEW

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 gases for harsh applications. 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 to ensure easy installation into your application.

SPECIFICATIONS

Temperature Sensor Range	-40 to +200°C, as specified	Accuracy (includes non-linearity, hysteresis, non-repeatability)	$\leq \pm 0.4\%$ FSO BFSL
Sensor Type	RTD		
Max Pressure (<2 inch probe)	7,250 PSI	Total Error at RT	$\pm 0.5\%$ typical, $\pm 1\%$ max
Max Pressure (>2 inch probe)	2,175 PSI		
Storage Temperature	-40 to +125°C	Total Error at FS	$\pm 2\%$, max
Ambient Operating Temperature	-40 to +85°C	Vibration	10G, 10 to 1000Hz
EMI/RFI Protection	Yes	Shock	100g, 11msec, 1/2 sine
IP Rating	IP65 minimum. Contact factory for higher ratings	Insulation Resistance	100M Ω (50VDC case to pins)

ELECTRICAL INFORMATION

Output	1-5V, 4-20mA	0.5-4.5V ratiometric
Power Supply Requirements	10-28VDC, unregulated	5VDC +/-0.5V, regulated

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

ORDERING INFORMATION

CS20 - X - X - X - XXX - X - X - 000 - XX

Process Connection

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

Probe Length

- A = 0.5 inches E = 4 inch
- B = 1 inch F = 5 inch
- C = 2 inch G = 6 inch
- D = 3 inch

Wetted Material

- A = 316L SS
- C = Hastelloy C276 (Special order item. Contact Factory)

Temperature Range

- 01A = 0 to 100°C
- 02A = 0 to 200°C
- 03A = 0 to 70°C
- 04A = -40 to 85°C
- 05A = -55 to 125°C
- 06A = -18 to 100°C
- 07A = -50 to 50°C

Cable Length (Meters)

Electrical option "L" only

- 00 = No cable
- 01 = 1 meter
- 02 = 2 meter
- 03 = 3 meter

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

DIMENSIONAL DATA (For reference only)

