

TECHNICAL SPECIFICATIONS

USA Patent No.: 7,223,014
 CDN Patent No.: 2,561,570

Electrical Properties

Input :	RTD, type Pt100
Sensor Temperature Ranges :	See Box1 code for standard ranges. Field re-scalable between -200°C to 600°C or -50°C to 200°C, depending on model.
Outputs :	4-20mA loop powered, 2-wire, linear to temperature 0-5Vdc, 1-5Vdc, 0-10Vdc all 3-wire, linear to temperature
Minimum Input Impedance :	1000 Ohm (of measuring device, for voltage output)
Power Supply :	12-32 VDC, polarity protected
Supply Effect :	0.001 % /V
Accuracy :	± (.25°C + 0.40 % of span) with one-point calibration ¹ . ± (.10°C + 0.10 % of calibrated span) with two-point calibration ² .
Maximum Loop Resistance :	[(Vsupply - 7) * 40] ohms (for 4-20mA output only)
Sensor Open Circuit :	Upscale 24 mA or Downscale 2.5 mA (for 4-20 mA output only)
Warmup :	30 seconds
RFI Effect :	1 % or less typical
Isolation :	500Vdc Input/Output
Temp. Effects :	± 0.001 % of Span/°C
Long Term Drift :	≤ 0.1 % FS/Year

Mechanical Properties

Sanitary Series

Wetted Surface Material :	Stainless steel 316/316L, dual certified
Environmental Rating	
Head assemblies :	Refer to head enclosures specifications
Cabled probe and M12 connection :	Meets NEMA 6P (IP67), hermetically sealed
Cable Material :	PVC, Teflon®, SS armor over Teflon®
Protection :	Meets NEMA 6P (IP67), hermetically sealed
Storage Temp. Range :	-40°C to 80°C
Operating Temp. Range :	-40°C to 80°C (housing only)
Maximum Operating Pressure :	500 PSIG (applies to sensor portion only)

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.

¹. Max. error on complete span. Error at calibration point ≤ 0.1% of Span.

². Max. error on complete calibrated span. Error at calibration points ≤ 0.1 % of Span.

³. Intempco sanitary sensors bearing the 3-A symbol meet the requirements of 3-A Sanitary Standards for Sensors and Sensor Fittings and Connections, Number 74-03, with some exceptions to section D10 for heat sterilization systems. Intempco sensors meet the requirements of section D10.1 and D10.1.1 for sterilization of the product contact surfaces, with exception made for section D10.1.2 and D10.1.3. Intempco sensors do not have a steam or other sterilization chamber surrounding the joint at the product contact surfaces between the fitting and the devices.

- Information furnished by Intempco is believed to be accurate and reliable. However, no responsibility is assumed by Intempco for its use.
- Specifications subject to change without notice.