SANI-FLOW TEMPERATURE SENSOR SPECIFICATIONS

CSE Temperature Transmitters and RTD's

Compliance	3-A[1]; NEMA 4X; IP67: ISO 9001:2015
Product Contact Material	316L stainless steel
Housing Material	316L stainless steel
Product Contact Finish	Ra = 8 µin (0.20 µm)[1]
Connector	Std. 12mm Industrial Connector (Gold plated copper contacts & polyphthalamide (PPA) keyed insert)
CIP/SIP	Yes
Autoclave	Yes[2]
Process Temperature Limits	-50° to 150°C (-58° to 302°F)[3]
Process Temperature Limits (Transmitter)	-30° to 150°C (-22° to 302°F)[3]
Ambient Temperature Limits (RTD)	-50° to 150°C (-58° to 302°F)[4]
Ambient Temperature Limits (Transmitter)	-40° to 85°C (-40° to 185°F)

Sanitary and industrial RTDs and temperature transmitters

Temperature Transmitter Electronics (Programmable)
Standard

Typical Accuracy	± 0.15% of span
Range	-30° to 150°C (-22 to 302°F) factory or field rangeable[5]
Input	6 to 32 VDC
Output	4 to 20 mA (temperature linear)
Resolution	5 µA (0.005 mA)
Linearity	±0.1% of span
Long-term Stability	±0.05% of span/year
Output Load	$R_{Load} = (V_{Supply} - 8.0V)/0.022$
Sensor Failure Detection (burnout)	Upscale
Isolation	Not Galvanically Isolated
Calibration	Field calibratable[5] Zero and Span adjustable[5] Rangeable[5]
Zero Adjustment	Any value within range limits[5]
Minimum Span	20°C (36°F)[5]

NFC Programmable transmitter electronics [5]

(standard)

SANI-FLOW TEMPERATURE SENSOR SPECIFICATIONS

RTD Element

Type	**Pt 100 Thin Film**
Tolerance	**F 0.15 (Class A)[6]**
Nominal Resistance	**100Ω at 0°C (32°F)**
Coefficient	**Alpha = 0.00385 Ω/Ω/°C**
Specification	**DIN EN 60751 / IEC 751[6]**
Long-Term Stability	**Max. R_0-Drift 0.04% after 1,000 hrs at 500°C (932°F)**
Measuring Current	**0.3 to 1.0 mA**

Thin-film RTD element potted in probe with thermally conductive paste

[1] Sanitary connections only. For a detailed list of sanitary fittings please consult factory or website

[2] Autoclave to 150°C (302°F) maximum – electronics MUST be removed from housing

[3] For higher temperature applications please consult factory or see website configurator

[4] Verify temperature limit of mating cable

[5] By a knowledgeable/qualified technician using NFC and a smart phone or tablet and INOR Connect app
Available for free download on App Store, Google Play store and Huawei AppGallery

[6] Tolerance in °C = ±0.15 + 0.002$\lvert$t$\rvert$:*where* t = *temperature*