

SANI-FLOW DIGITAL THERMOMETERS SPECIFICATIONS

CSE Digital Thermometer

Compliance	3-A⁽¹⁾; NEMA 4X; IP67; ISO 9001:2015
Accuracy	±0.5° F (±0.3° C)
Resolution	0.1 °F or °C (Full Scale)
Units	°F or °C (Field Selectable)
LCD Numeral Size	1" (25.4 mm)
Refresh Rate	Once per Second
Product Contact Material	316L stainless steel
Housing Material	304L stainless steel
Product Contact Finish	Ra = 8 µin (0.20 µm)
CIP/SIP	Yes
Autoclave	Yes
Process Temperature Limits	-58 to 302 °F (-50 C to 150 °C)
Ambient Temperature Limits (RTD)	-40 to 176 °F (-40 to 80 °C)
Ambient Temperature Limits (Transmitter)	-40 to 185 °F (-40 to 85 °C)

CSE Digital Thermometer – RTD Output

Optional

Connector	Std. 12mm Industrial Connector (Gold plated copper contacts & polyphthalamide (PPA) keyed insert)
RTD Type	3-Wire Thin Film
RTD Tolerance	F 0.15 (Class A)
Nominal Resistance	100Ω at 0°C (32°F)
Coefficient	Alpha = 0.00385 Ω/Ω/°C
Specification	DIN EN 60751 / IEC 751
Long-Term Stability	Max R₀ Drift- 0.04% after 1,000 hrs. at 500 °C (932 °F)
Measuring Current	0.3 to 1.0 mA

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CSE Digital Thermometer – Transmitter Output

Optional

Connector	Std. 12mm Industrial Connector (Gold plated copper contacts & polyphthalamide (PPA) keyed insert)
Typical Accuracy	$\pm 0.15\%$ of span
Range	-30° to 150°C (-22° to 302°F)
Type	2-Wire Analog
Input	6.5 to 32 VDC
Output	4 to 20 mA (temperature linear)
Linearity	$\pm 0.1\%$ of span
Long-Term Stability	$\pm 0.1\%$ of span/year
Output Load	$R_{Load} = (V_{supply} - 6.5V)/0.025$
Sensor Failure Detection (burnout)	Upscale
Isolation	Non-isolated