

TECHNICAL SPECIFICATIONS

Electrical Properties

RTD Element (Standard specification) :	Pt100Ω DIN EN 60751, $\alpha = 0.00385\text{ }^{\circ}\text{C}^{-1}$ 2, 3 or 4 wire Single or Duplex Class AA, A, B or C
Sensor Temperature Range :	-200°C to 600°C available, see box1 code for standard ranges. Applies to sensing portion
Insulation Resistance :	> 100MΩ @ 100 Vdc lead wire to sheath @ 25°C

Mechanical Properties

Cable Material :	PVC, Teflon®, Polyolefin shrink over SS armor, Teflon® shrink over SS armor
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
Storage Temp. Range :	-50°C to 125°C, see cable or head temperature limits
Operating Temp. Range :	-50°C to 125°C, see cable or head temperature limits
Maximum Operating Pressure :	500 PSIG (applies to sensor portion only)
Standard Surface Finish : Code "SF"	Maximum Ra of 32 μ-in (0.8 μm) or better as per 3-A 74-06
Pharmaceutical Surface Finish : Code "F1"	Per ASME BPE 2014 SF-1 20 μ-in (0.5 μm) Ra max. without electro polish
Pharmaceutical Surface Finish : Code "F4"	Per ASME BPE 2014 SF-4 15 μ-in (0.4 μm) Ra max. with electro polish
Approbations¹:	3-A symbol authorization 3-A Sanitary Standards for Sensors and Sensors Fittings & Connections Number 74-06

¹ Intempco sanitary sensors bearing the 3-A symbol meet the requirements of 3-A Sanitary Standards for Sensors and Sensor Fittings and Connections, Number 74-06, 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.

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