

# Pt100 Smart-Sensors™

For Cobalt X™ and Cobalt L3™

## Smart-Sensor technology

### **Maximum reliability and unprecedented ease-of-use**

- Smart-Sensor technology stores all calibration information directly in on-board memory, including calibration correction coefficients (a/b or a/b/c), measurement uncertainty after calibration, drift after 1 year, and sensor serial number
- Plug-and-play operation for immediate use with no configuration required
- At recalibration time, swap with a freshly calibrated, ready-to-use sensor without any data loss or down-time
- All-digital technology for maximum consistency and reliability
- The Pt100 Smart-Sensor benefits from an embedded analog-digital signal converter that enables direct calibration, independently of the data logger

## Pt100 Smart-Sensor (-100°C to +200°C)

### **-80 °C freezers, industrial applications**

The Pt100 Smart-Sensor covering -100°C to +200°C is ideal for a variety of situations.

Perfect for monitoring -80°C freezers, this sensor features our Smart-Sensor technology.



## Pt100 Smart-Sensor (-200°C to +50°C)

### **Cryogenic freezers, liquid Nitrogen tanks**

The Pt100 Smart-Sensor covering -200°C to +50°C is ideal for monitoring ultra-low temperatures.

Particularly well adapted for monitoring cryogenic freezers and Nitrogen tanks, this sensor features our Smart-Sensor technology.



# Specifications

<b>Pt100 Smart-Sensors</b>			
<b>General</b>			
Range	-100°C to +200°C	-200°C to +50°C	
<b>Compatibility</b>			
		  	Cobalt X2, Cobalt X1, Cobalt L3
Product reference	SON.TPT.0009		SON.TPT.0010
<b>Metrology</b>			
Resolution	0.03°C		
Expanded uncertainty	+0.08°C to +0.3°C		
Calibration options	ISO/IEC 17025 (COFRAC) accredited Certified (non-accredited) NIST-traceable  Recalibration via sensor exchange		
<b>Characteristics</b>			
Sensor type	Smart-Sensor		
Material	Stainless steel		
Class	Class B		
Cable	3-wire PTFE		
Dimensions	Ø: 3 mm L: 100 mm  Cable: 350 cm (with connector)	Ø: 3 mm L: 100 mm Junction: Ø 6 mm  Cable: 140 cm (with connector)	
Protection Index	IP66		

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