



Temperature Measurements

Technical Specification

Sensor with this logger configuration:	Double Semi Flexible Temperature Sensor
Temperature Measuring Range:	-80 to +150 °C -196 to -80 °C when keeping logger at ambient
Measuring Principle	Electrical Resistance
Sensor Element:	Pt1000
Diameter:	1.5 / 2 mm
Length:	100 mm - 1000 mm
Position of Measuring Point from Tip:	3 mm
Accuracy:	
-196 to -80 °C:	± 3.0 °C (± 0.5 °C if calibrated and adjusted at -196 °C)
-80 to -50 °C:	± 0.3 °C
-50 to -40 °C:	± 0.2 °C
-40 to +150 °C:	± 0.1 °C
Sensor Response Time	
T-63%:	0.5 / 0.4 Second
T-90%:	0.7 / 0.8 Second
Logger with this sensor configuration:	Pro X 3G
Operating Temperature:	-80 to +150 °C
Operating Pressure	0.001 mBar to 10 Bar ABS
House Material:	316L Stainless Steel
Diameter:	25 mm
Length:	44 mm
Weight with Battery:	48 Grams
Memory Capacity:	120,000 Data Points / 60,000 Samples
Minimum Sample Rate:	1 Second
Maximum Sample Rate	24 Hours
Maximum Start Delay	14 Days
Intrinsically Safe:	Ex II1GD Ex ia IIC T3 Ga, -60°C ≤ Tamb ≤ +105°C
Time Accuracy:	± 5 Seconds Per 24 Hours
Battery:	TSP Standard Battery



Interchangeable Sensor Design



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Model Version:	ETS 25
Housing Material;	Recyclable ABS Plastic
Housing IP Class:	41
Display Type:	High resolution 3-digit digital
Interface & Power Source:	USB or Power over Ethernet (PoE)
Temperature Range:	-196 to +420 °C
Accuracy – Including Instrument, PRT and Drift	
-50 to +150 °C:	±0.025 °C
Other temperatures:	±0.025 °C
Measuring Sample Rate:	1 Sec.
Digital Filter:	0-10 Sec.
Resistance:	100 Ω
Sensor Response Time	
T-63%:	33 Seconds
T-90%:	45 Seconds
Sensor Material:	Inconel™600
Dimension of Sensor:	ø 6.35 x 300 mm
Minimum Immersion Depth:	100 mm
Environmental:	5 – 50 °C / 0 – 90% RH, non-condensing
Calibration Traceability:	Teknologisk Institut, Denmark
Calibration Algorithms:	ITS-90
Recommended Calibration Interval:	12 months
Weight:	305 g