

Specifications

OPTICAL TEMPERATURE ROBUST SCREW CAP PROBES

1 SENSOR SPECIFICATIONS

Specifications are valid for temperature robust screw cap probes (item no.: **TPROBSC**, **TPROBSC-SUB**).

1.1 Specifications in gas & water/aqueous samples

Specifications	
Measuring Range	0 to 50°C (273-323 K; 32-122 °F)
Accuracy	± 0.5°C (1-point calibrated)
Resolution	0.04°C
Drift	<0.2°C / week at 25°C

* For 1-point calibrated sensor.

1.2 General Characteristics

Response time ‡ (t90) in water	<1 s
Minimum Lifetime	10,000,000 data points
Calibration Modes	1-point calibration
Sensor Dimensions Length without cable (ca.) Shaft diameter (ca.) Sensor tip diameter (ca.)	100 mm 3 -4 mm (tapered) 4 mm
Cable length (ca.)	2 m
Application Areas	Laboratory, industry, research. NOT for medical or any safety-critical application. NOT for application in humans. NOT for application in food intended for human consumption.

‡ Typical response times for 90% signal change.

2 APPLICABILITY AND CROSS-SENSITIVITY

	Applicability	Cross-Sensitivity
Water/Aqueous solutions	shallow-water only (<100m)	
Gas Phase (typ. air components) *	X	
Ethanol¹	short-term only	
Methanol¹	short-term only	
Isopropanol¹	short-term only	
Other organic solvents²		X
Bleach		X

¹ Only for temperature compensation of oxygen measurements (in combination with contactless oxygen sensor).

² Includes liquid solvents and solvent vapors

3 CLEANING, STERILIZATION, STORAGE

Cleaning	3% H ₂ O ₂ , Soap solution, short-term Ethanol
Sterilization	short-term 70% Ethanol and 70% Isopropanol
Storage	>3 years in darkness at room temperature

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