

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 |
| 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 | X | |
| Gas Phase (typ. air components) * | X | |
| Ethanol ¹ | short-term only | |
| Methanol ¹ | short-term only | |
| Isopropanol ¹ | short-term only | |
| Other organic solvents ² | | 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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