

Specifications

OPTICAL TEMPERATURE MINISENSORS

1 SENSOR SPECIFICATIONS

Specifications are valid for retractable needle-type minisensors (item no.: **TPR430**), fixed needle-type minisensors (item no.: **TPF1100**), bare fiber minisensors (item no.: **TPB430**) and insertable mini probes (item no.: **TPIMP500**) including the following options: underwater connector (-**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	0.02°C
Drift	<0.1°C / day

* For 1-point calibrated sensor.

1.2 General Characteristics

Response time ‡ (t90) in water	<0.1 sec
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	
Organic solvents*		X
Bleach		X

* Includes liquid solvents and solvent vapors

3 CLEANING, STERILIZATION, STORAGE

Cleaning	3% H ₂ O ₂ , soap solution
Sterilization	TPR430, TPF1100, TPB430: Sterilization with short-term 70% isopropanol; ethylene oxide (EtO, EO) sterilization (details on request) TPIMP500: ethylene oxide (EtO, EO) sterilization (details on request)
Storage	>3 years in darkness at room temperature

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