

Specifications

pH Minisensor

1 PH MINISENSOR SPECIFICATIONS

Only valid in **physiological solutions (ionic strength = 150mM)** at 25°C for **2-point calibrated** sensors. Specifications are valid for fixed fiber pH minisensors (item no.: **PHF-PKx**).

1.1 General Characteristics

Response Time (t_{90}) at 25°C*	<10 sec
Temperature Range	-1°C (30°F) to 50°C (122°F)
Influence of Salinity‡	Specified for measurements between 20-500 mM ionic strength. Response time and accuracy at lower or higher salinities are not specified. Rough compensation is enabled in the software.
Calibration Modes	2-point calibration
Calibration Solution	PyroScience buffer capsules or a self-made buffer (details on request) must be used
Background Fluorescence	Minimized due to REDFLASH technology
Optical Isolation	The sensor is NOT equipped with an optical isolation. The sensor tip has to be protected from direct light.
Sensor Dimensions Length without cable (ca.) Sensor tip diameter (ca.) Cable length (ca.)	PHF-PKx 10 cm 500 µm 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.

* time for 90% of the total sensor signal change in stirred media

‡ PK8T versions are specified for measurements between PSU 30-40

1.2 Specifications

PK6.5 - Version

Specifications	
Item No.	PHF-PK6.5
Measuring Range	5.5 - 7.5
Accuracy at pH 6.5	± 0.1 after 2-point calibration
Resolution at pH 6.5	0.003
Drift at pH 6.5	< 0.02 / day at 25°C

PK8 - Version

Specifications	
Item No.	PHF-PK8
Measuring Range	7.0 - 9.0
Accuracy at pH 8.0	± 0.1 after 2-point calibration
Resolution at pH 8.0	0.003
Drift at pH 8.0	< 0.02 / day at 25°C

2 APPLICABILITY AND CROSS-SENSITIVITY

	Applicability	Cross-Sensitivity	NO Cross-Sensitivity
Water/Aqueous solutions	X		
Diluted Ethanol (<5%)	short-term		
Other organic solvents		X	
Charged surfactants (e.g. sodium dodecyl sulfate)		X	
Calibration buffers for pH electrodes		X	
Certified reference materials (CRMs) for pH electrodes		X	
Uncharged antifoam agents (e.g. polyethylene glycol, Tween80)			X
Phenol red			X

Do not use in solid or semisolid samples like sediments.

3 CLEANING & STORAGE

Cleaning	Distilled water
Sterilization	2% glutaraldehyde solution
Storage	Original packaging (unpacked): 6 months at room temperature

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