

## pH/Temperature Sensor



The pH probe with integrated temperature sensor was designed for use in challenging conditions. The possible applications range from pure spring water all the way to wastewater. The special Plastogel® technology increases service life and thereby reduces the need to replace the cartridge.

Thanks to the low energy consumption and quick response time, the pH sensor can be used in mobile and stationary applications.

The intelligent sensor saves data such as calibration directly in the sensor. This enables „play-and-play“ usage without requiring recalibration.

Transfer of data is accomplished by means of a Modbusprotocol.

### ADVANTAGES AT A GLANCE

- pH and temperature measurement
- Calibration data stored directly in sensor
- For mobile and stationary applications
- Data transfer via Modbus RS485
- pH measuring range: 0 to 14
- Temperature measuring range: 0°C to +50°C

# TECHNICAL DATA

GENERAL		PH MEASUREMENT	
Dimensions	Diameter: 27 / 21 mm Length: 207 mm	Measuring Principle	Combined electrode (pH/reference), special glass, Ag/AgCl Ref. electrolyte (KCl)
Weight	350 g (sensor + 3 m cable)	Measuring Range	0 - 14 pH
Material	PVC, Delrin®, special pH glass, platinum, polyamide	Resolution	0,01 pH
Operating Temp.	0 to +50°C	Accuracy	± 0,1 pH
Storage Temp.	0 to +60°C	TEMPERATUR MEASUREMENT	
Communication	Modbus RS-485 (optional: SDI-12)		
Connector	Specialized cable with Fisher connector or open ends	Technology	NTC
Power Requirement	5 to 9 V	Measuring Range	0 bis +50°C
Energy Consumption	Standby: 25 µA Average (1 measurement/s): 3.9 mA	Resolution	0,01°C
Impulse Current	500 mA	Accuracy	± 0,5 °C
Maximum Pressure	5 bar	Response Time	<5 s
Protection Class	IP 68		

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QUESTIONS?

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