

# WQL-pH pH Datalogger

Datalogger for long term pH field studies



## Features

- Intelligent energy management for longer battery lifetime
- Up to 600,000 data records
- USB connection for fast data transfer to PC
- Replaceable pH electrode
- User-friendly software interface

## Specifications

Measuring Ranges NOTE: Applies to samples with temperatures between 59 to 95°F (15 to 35°C) and for measurements in a range ±2 pH from the calibration point.	pH: 0.000 to 20.000 mV: -1000.0 to +1000.0 Temp: -23 to 221°F (-5.0 to +105.0°C)
Measuring Resolution	pH: 0.001 mV: 0.1 Temp: 0.1°F (0.1°C)
Accuracy NOTE: Applies to datalogger, not electrode or buffer solutions	pH: <0.005 +1 Digit mV: <0.2mV +1 Digit Temp: <0.1°F (0.1°C) +1 Digit
Temperature sensor	Automatic recognition of the temperature sensor of the electrode: NTC 30 (30 kOhm at 25 °C / 77 °F) or Pt1000
Temp Comp	Automatic
Calibration	Automatic buffer detection
Data Volume	up to 600,000 data records
Sampling Interval	adjustable: 1, 5, 10, 30 s / 1, 5, 10, 15, 30 min / 1, 2, 3, 6, 9, 12, 24 hr
USB Interface	Type USB 1.1, USB-B (Device)
Maximum Pressure/Depth	145 PSI (10 bar)/328 ft (100 m)
Storage Temp	-13 to 149°F (-25 to +65°C)
IP Rating	IP 68

## Description

The WQL-pH, pH dataloggers meet the requirements of continuous long-term pH measurement and data logging. Applications for the WQL-pH are characterized by the need for a large quantity of reliable data measurements at multiple measuring positions which are difficult to access. With a diameter of only 1 inch (25 mm) the dataloggers are ideal for both ground and surface water monitoring projects.

The pH Datalogger's huge memory can record up to 600,000 data sets containing the pH measurement, temperature, date, and datalogger ID number. This massive amount of data storage is ideal for detailed pH monitoring studies. The data is recovered using a mini USB connection for fast data transfer directly to a PC. They have a status LED which provides information on memory and measurement operation and a quick start button located under the end cap allows you to have further control over your pH measurements.

## Electrode

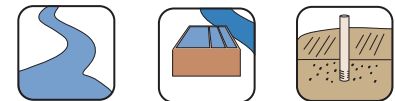
The pH dataloggers use the new SensoLyt pH elec-

trode with integrated temperature sensor and extremely stable polymer reference electrolyte allowing for precise measurement over a long period of time. The WQL-pH and electrode have a robust design with an IP 68 rating which can withstand depths up to 328 ft (100m). The electrode is replaceable and has a SMEK plug for easy removal and installation. A robust stainless steel basket guard provides complete protection to the glass electrode shaft in the field.

## Power

The Datalogger uses a high quality lithium battery as its power source. Special intelligent battery power management maximizes the battery's life. While the battery life is dependent upon the frequency of measurement, the battery can last up to 16 months with a sample rate of 10 minutes or more. Changing the battery is as easy as opening the conveniently located battery compartment on the pH datalogger's main body.

## Applications



Ideal for watersheds, wells, rivers, lakes, dredging, mining, boreholes, landfill runoff, and pump stations.

Power Supply	Lithium ion battery (3.6V, AA size, 2600 mAh) Up to 16 months depending on the sample rate
Material	Metal parts (Stainless steel 1.4571), Battery Compartment (Brass, gold-plated)
Weight	1.9 lb. (860 g)
Size	0.98 inch Diameter x 15.83 inch L (25 mm dia. x 402 mm long), retaining hole 0.26 inch (6.5mm)
Certifications	CE

## SensoLyt WQL

pH Range	2.000 to 12.000
Reference Electrolyte	Polymer, AgCl free
Junction	Single hole junction
Shunt Element	Ag/AgCl
Temp Range	32 to 140°F (0 to 60°C)
Connection	SMEK head, 6-pole
Maximum Pressure/Depth	145 PSI (10 bar)/328 ft (100 m)
Material	Shaft: Glass, O-rings: FPM (Viton), SMEK plug: PEEK with gold plated contacts
Dimensions	4.7 inch L x 1/2 inch Dia (120 mm L x 12 mm Dia)
Weight	1.6 oz (45 g)

## Ordering & Options

Order No.	Description
WQL-pH	pH datalogger, Li battery, pH electrode, and accessories.
WQL-pH Kit	Case, pH datalogger, Li battery, pH electrode, and accessories.
103709	pH SensoLyt Electrode
109825	Lithium ion battery (3.6V, AA size, 2600 mAh)



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