

WQL-Cond Conductivity Datalogger

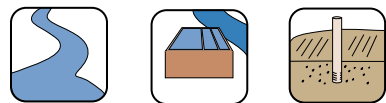
Datalogger for long term conductivity field studies



Features

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

Applications



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

Specifications

Measuring Ranges	Conductivity: 0.0 to 199.9 $\mu\text{S}/\text{cm}$, 200 to 1999 $\mu\text{S}/\text{cm}$, 2.00 to 19.99 mS/cm , 20.0 to 199.9 mS/cm , 200 to 1000 mS/cm Salinity: 0.0 to 70.0 according to the IOT table TDS: 0 to 199.9 mg/l , 200 to 1999 mg/l , 2.00 to 19.99 g/l , 20.0 to 199.9 g/l Temp: 23 to 140°F (5.0 to +60.0°C)
Accuracy	Conductivity: $\pm 0.5\%$ of measured value Temp: $\pm 0.1^\circ\text{F}$ ($\pm 0.1^\circ\text{C}$)
Temperature sensor	Integrated, NTC 30 (30 k at 25 °C / 77 °F)
Temp Comp	Automatic or none
Temperature Coefficient	non-linear (nLF) according to EN 27888 (default), linear, none

Description

The WQL-Cond, conductivity dataloggers are part of a new datalogger product family that meet the requirements of continuous long-term conductivity measurement and data logging. Applications 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. They consist of three parts including the end cap which covers the USB data transfer port, the main body which houses the battery, and the fail safe 4-electrode-cell conductivity probe.

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

Calibration	Automatic or manual buffer detection
Reference Temperature	Selectable 20°C or 25°C
Measuring Principle	Four-electrodes measurement
Cell Constant	0.475/ $\text{cm}^{-1} \pm 1.5\%$
Measuring Medium	Temp Range: 32 to 140 °F (0 to 60 °C) pH Range: 2 to 12
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
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	2.1 lb. (950 g)
Size	0.98 inch Diameter x 16.61 inch L (25 mm dia. x 422 mm long), retaining hole 0.26 inch (6.5mm)
Certifications	CE

Software

A user-friendly software interface allows you easy and fast access to all important functions and settings. The software allows you to easily follow the detailed calibration protocol and configure several key parameters including time interval, starting and stopping point, and the datalogger's ID. It includes a graphing function to simplify data analysis and can pre-filter the data by date and time, then easily export the data via .CSV format to other software programs for more detailed analysis.

Power

The datalogger uses a high quality lithium battery as its power source. It uses special intelligent battery power management to maximize the battery 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 datalogger's main body.

Ordering & Options

Order No.	Description
WQL-Cond	Conductivity datalogger, fixed 4-electrode cell Tetracon® 325, PC-program WQL-Log, USB cable, Li battery, shackle, and hex wrench
WQL-Cond Kit	Case, conductivity datalogger, PC program WQL-Log, USB cable, Li battery, shackle and hex wrench, fixed 4-electrode cell Tetracon® 325, KCL solution, and beaker
109825	Lithium ion battery (3.6V, AA size, 2600 mAh)



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