

DCX-22 Self-Contained Level Logger

Absolute Pressure and Temperature Combination Logger



Description

The DCX-22 Self-Contained Level Logger is a highly accurate, self-contained, battery powered instrument designed to record water depths and temperature over long periods. The sensor, electronics, and battery are housed in a rugged, double sealed 316 stainless steel tube for long term submersible deployment. The DCX-22 requires no external electrical wires and may be suspended with any suitable and secure cable. When it is time to download the unit's recorded data, you can simply retrieve the DCX-22 from the measurement point and remove the double sealed end cap to access the data port. The DCX-22 is available in two level ranges. When ordering, select the smallest level range that will cover the maximum expected water level change (this is not necessarily the total depth of water).

Accurate Barometric Pressure Correlation

When using the DCX-22 in shallow water depths where the influence of barometric pressure changes should be considered, we recommend that you place the DCX-22 Baro at the water surface to record the atmospheric pressure. Once the data files are downloaded to your PC, the unit's software quickly and accurately subtracts the barometric pressure values from the water pressure values. The DCX-22 Baro is built to the same high quality standards as the DCX-22 Logger.

Easy to Use Software

The DCX-22 includes simple and well structured software that is compatible with Windows™ 2000/NT/XP/ME and 9X. The software allows you to configure and read data from the DCX-22. In

particular, you can:

- Set the measuring frequency (from once per second to once every 18 hours)
- Measure data in mWC or any other unit
- Program the date and time to start measuring
- Program an event that will activate the logger
- View online data and battery condition in real time
- Export data for spreadsheet use and graphical representation

Due to the modular structure of the software, customer specific data formats can be implemented on request. In addition, a Windows™ CE-based application for accessing data on a PDA is also available upon request. Please contact Global Water to discuss these options.

Specifications

Power	Lithium battery 3.6V
Battery Life	10 years @ 1 measurement per hour
Communications	RS-485 digital
Logger to PC	USB (optional RS-232)
Performance	Linearity: 0.05% full scale Level Accuracy: 0.1% full scale (max. 0.2% full scale) Baro Accuracy: 1 mbar Long Term Stability: 0.5 mbar Overload: 2 x nominal range
Temperature Compensation	14° to 104°F (-10° to 40°C)
Temperature Measurement Accuracy	1.8°F (1°C)
Recording Interval	1 second to 18 hours
Shortest Measuring Cycle	1x per second
Memory	16,000 or 28,000 data points (depending on storage method)
Body Material	Stainless steel 316L (DIN 1.4435)
O-Ring Material	Viton®
Dimensions	7/8 inch (2.2cm) Diameter x 11 inch (28cm) Long
Sensor Weight	0.78 lb (355g)
Software Compatibility	Windows™ 2000/NT/XP/ME and 9X

Features

- High measuring accuracy, resolution, and robustness
- Completely self-contained water level datalogger
- Rugged 316 stainless steel body with double o-ring seal
- 10 year battery life
- Up to 28,000 readings in non-volatile memory
- High data security due to the use of a non-volatile memory
- Slim 7/8 inch (22mm) diameter body
- Easy to use Windows™-based software
- Event-controlled recording and interval recording
- Record water level (pressure) and water temperature
- Software-based barometric pressure compensation with DCX-22 Baro

Ordering & Options

Level Loggers

Order No.	Sensor Range
DCX-22-2	0-32.8 Feet (0 to 10 m)
DCX-22-3	0-65.6 Feet (0 to 20 m)

Barometric Pressure Logger

Order No.	Description
DCX-22 Baro	Barometric Pressure Logger

Data Cables*

Order No.	Description
K-104A	USB Communication Cable
K-103A	RS-232 Communication Cable

* Note: A communication cable is required for operation. Data logging software is included.



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