

WATER LEVEL LOGGER



Description

The Water Level Logger is a microprocessor controlled unit for automatically recording the water level at pre-programmed intervals. The equipment consists of a cylindrical probe which has a transducer incorporated into its base and a robust waterproof control unit which is connected to the probe. The probe is positioned in the water and the system measures the height of the water above the transducer. The current water height can be measured by connecting the logger to a laptop. The probe has been designed so that it 10 mm of tubing below the sensor so that it can be used where there is mud at the bottom of the water being monitored. The control box contains the electronic control/ battery box, logger and battery box. To increase the unit's flexibility the logger is detachable from the control box to enable it to be replaced in the field. The logger is setup and the data retrieved via a USB lead that is connected to a PC or laptop. The logger is programmed with a text string, used to identify the logger, the logging time interval and automatically with the current date and time. When the data is retrieved, the text string, time and date of each reading and water height are obtained. The data is displayed graphically, and maximum and minimum values are shown. The data can be changed into various formats for exporting to spreadsheets etc. for further analyses.

Specifications

General

Water table height range:	0 to 1 metre (or as required)
Accuracy:	<0.5% (normal operating conditions)
Battery life:	> 2 year

Logger

Resolution:	5 mm
Information stored:	Water depth Time and date of reading Identifying text
Data retention:	Indefinite, even when battery is removed

Logging Interval	1 minute to 10 days
Logging period:	Up to 2 years
Software	IBM PC or compatible, File output compatible with spreadsheet formats (e.g. Excel) Graphical and statistical output

Dimensions

Transducer tube:	35 mm (diam.) x 1300 mm (or as required)
Control box:	180 mm x 180 mm x 140 mm

Displays

Logger indicator:	Flashes every 4 secs. when logging in progress
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Controls

Read switch:	Activates battery check
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Batteries

Display box	4 AA lithium batteries
Logger	1/2 AA Lithium battery

Connectors

The logger lead connects the logger to the USB on the PC.

Downloading

If required the logger can be downloaded in the field with a laptop. As an option the logger section can be disconnected for remote downloading and replaced with another logger.

We reserve the right to change without notice the specifications contained in this leaflet

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