



The Heron **dipper-log** A Powerful Ground Water Level Logger

FEATURES

- ◆ Accuracy 0.05% F.S. Diameter 0.75" (19mm)
- ◆ Totally submersible inside the well
- ◆ Optional cable adaptor kit for wellhead readout and control
- ◆ 16 000 date and time stamped readings
- ◆ Non-volatile memory
- ◆ Up to 10 year battery life
- ◆ Variable sample intervals
- ◆ Automatic compensation during installation for barometric pressure and elevation for short term tests
- ◆ Multiple pressures ranges to 400 ft/120 m head
- ◆ Pocket PC controllable
- ◆ Telemetry expandable
- ◆ Barometric logger available for long term monitoring
- ◆ Speed reading up to 20 readings per second with real time graphing



Submersible Logger

What the **dipper-log** does

The **dipper-log** measures and records the water level and temperature at preset intervals in wells and open bodies of water. It stores the readings allowing them to be downloaded at a convenient time.

Stores 16000 time/dated readings in engineering or metric units.

Calculates and tabulates water levels in feet or meters relative to datum and temperature in centigrade.

Convenient wellhead data access

For installations where frequent downloading is required, a wellhead readout adaptor kit is available.

This allows full downloading and control of the **dipper-log** from the surface without having to remove the logger from the well.

This version also allows real time readings to be taken, a useful feature for pump and drawdown tests.



Well head read out version
Universal mounting kit shown

The **dipper-log** is EASY TO USE

Just follow the three easy steps in the Windows and Pocket PC based software (Win 95, 98, ME, 2000 and XP) for a successful installation.

Quick and easy data download. No calculations needed. The results are shown as compensated height of water above the logger and depth of water below datum, together with temperature, which can be graphed at the click of a mouse.

The compact design of the **dipper-log** is ideal for monitoring surface water and deep water wells. The **dipper-log** is launched and then installed in the well with a simple wireline or a direct read cable at the required depth. The unit can be stored inside the well casing giving protection against vandalism.

The **Bar-Log** One Step Barometric Compensation

For long term monitoring a Heron **bar-log** should be used.

The Heron **bar-log** is factory set to take a barometric pressure reading every hour. The **bar-log** will share this information with every **dipper-log** that has the same "job number" given during the installation.

The one step compensation calculations are done automatically during the download procedure.

Initial Elevation and Barometric Measurement Eliminates Guess Work

The **dipper-log** automatically takes a barometric pressure reading during the installation procedure. The **dipper-log** does not use a vented cable.

If a **bar-log** is not used, this one time reading is used by the logger to compute the depth and height of water based on the barometric pressure at the time of launch.

Quality, accuracy
and reliability.



All **dipper-logs** are sold as complete units ready for field use Your Choice of Sampling Intervals

A wide range of sampling intervals is available to the user from one per second up to one every 255 hours in steps of seconds, minutes or hours.

Speed read mode takes up to 20 readings per second and plots the real time graph directly onto your computer.

A "log time" interval is included. This facility increases the reading interval by one second for each reading allowing a total of 255 measurements over nine hours. Ideal for short term pump tests.

The **dipper-log** can also be setup to start at a future date and time to take readings at the preset intervals.

Powerful Pocket PC Field Kit (optional)

The **dipper-log** can be operated in all modes using a pocket PC.

The pocket PC is a convenient tool that can launch the **dipper-log** and download the data for transfer to the main computer.

The data settings and downloads can be viewed on the PPC screen, and realtime readings taken with the wellhead readout **dipper-log**.



Pocket PC (optional)

The PPC supplied by Heron Instruments includes the Heron developed software to operate the **dipper-logs**.

The memory capacity of the memory card supplied with the PPC allows for the storage of several thousand fully loaded loggers at 16000 readings each.

The PPC is housed in a rugged convenient sized weatherproof housing that allows full operation of the unit under demanding field conditions.

Remote Data Acquisition - Telemetry

The **dipper-log** can be downloaded remotely from the logger location to your PC using CDMA and other communication formats. Download times can be determined at setup. The **dipper-log** software will download the data then clear the logger memory and restart the mission. This gives unlimited reading capacity, with our remote accessory package.

In cases where a constant and sufficient power source is available the **dipper-log** may be downloaded at any time.

Heron Instruments supplies all the required hardware and software for this application. For further information, please contact us.



dipper-log mounted on a reel for short term tests (optional)