HERON INSTRUMENTS INC.
Groundwater Monitoring

The dipper-log

A Powerful Ground Water Level Logger

Economical • Easy to use • Compact
Wide range of sampling intervals
Pressure ranges to 400ft (120M)
Accuracy 0.1% F.S.

FEATURES:

- Small diameter 0.75"(19mm)
- Totally submersible inside the well
- 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
- Multiple pressure ranges to 400 ft/120 m head
- Pocket PC controllable
- Telemetry expandable
- Optional cable adaptor kit for wellhead readout and control

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 & 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 at the required depth. The unit can be stored inside the well casing giving protection against vandalism.

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 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.

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.

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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.

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.

REMOTE DATA ACQUISITION

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 contact **Heron Instruments**.

POWERFUL POCKET PC FIELD KIT

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**.

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

The memory capacity allows for the storage of 16 fully loaded loggers at 16000 readings each or a total of 256000 readings from more than 16 loggers.

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

SELECT A PRESSURE RANGE

Depth Ranges	Logger Type:	Max. readable head of water over logger:	
	A	Barometric	(bar-log)
	B	35 ft / 10 m	(dipper-log)
	C	100 ft / 30 m	(dipper-log)
	D	200 ft / 50m	(dipper-log)
	E	400 ft / 120 m	(dipper-log)

Some of Heron's Other Products:

H.01L | Sm.OiL — Oil/Water Interface Meters

dipper-T | potable | little dipper | water tape — Water Level Meters

HERON INSTRUMENTS : www.heroninstruments.com for further details, 360° views, tips and more

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