dipper-log

The **dipper-log** by Heron Instruments is an economical, single channel data logger for long term monitoring of groundwater levels in wells, boreholes and open bodies of water.

For draw down, recharge slug testing use reeled option

for convenience and flexibility.

Some of the quality features engineered into these units:

- The **dipper-log's** compact size allows it to be used in wells down to ¾ inch (20mm) diameter.
- The **dipper-log** uses an absolute (total pressure) system. The system does not require vented cable which is subject to condensation and freezing.
- The **dipper-log** automatically takes barometrically compensated readings for short term tests. For longer term applications use a Heron barometric logger (the **bar-log**) to measure and record atmospheric pressure.
- The **dipper-log** uses popular Windows based software to initiate a mission and to retrieve, calculate and tabulate the data. A graphics package is available.
- The **dipper-log** system is designed and manufactured by Heron Instruments to be accurate, easy to use and economical.

What the dipper-log does:

- Stores **16000** time/dated readings in engineering or metric units.
- Records reading intervals in seconds, minutes, hours or days.
- Calculates and tabulates water levels in feet or meters.
- Allows preset start time/date.
- Takes barometrically compensated real time readings.
- Automatically recalibrates itself at the start of each mission.
- Records depth below datum, job and well number.
- Allows you to set logger time/date.
- Stores all of the above information in the **dipper-log.**
- Synchronizes all reading on multi logger installations after the first unit reading. (i.e. min., hour, day)

The dipper-log is easy to use:

- The **dipper-log** will not allow you to proceed with "setup" if required information is not entered.
- Recalibrates itself during set up.
- Stores default values for some parameters. (i.e. last barometric pressure, last calibration value)
- Automatically takes a barometric reading during set up for use in real time readings.
- The **dipper-log** and **bar-log** files are automatically matched to give barometrically compensated results.
- Allows immediate or delayed start.
- Uses non volatile EEPROM memory. Data is not lost if battery fails or is removed.
- Simple to use Windows based software (for Win95, 98, ME, 2000 & XP) (graphics package available)
- Compact 5 inch (130mm) long x 0.72 inches (19mm) diameter logger unit.
- Convenient direct readings from the well head unit.
- Has an easy change camera style battery in the well head unit. The battery may be changed without removing the logger from the well. (Energizer EL 123 or equivalent)
- Accurate to 0.1% F.S (transducer)
- Slim 1/8 inch (3.1mm) flexible cable. Excess cable can be stored in the well.

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dipper-log designed and built by Heron Instruments

Depth Ranges

Logger Type	Max. readable head of water over logger*	
A	Barometric	(**bar-log**)
B	35ft/10m	(**dipper-log**)
C	100ft/30m	(**dipper-log**)
D	200ft/60m	(**dipper-log**)
E	400ft/120m	(**dipper-log**)

* When these water heads are exceeded the reading will "flat line" and the unit may be damaged.

Recording Periods

Total logging time at set intervals for 16000 readings:

Interval	Mins	Hours	Days	Years
Secs	266	4.4	-	-
Mins	-	266	-	-
Hours	-	-	666	1.8
Days	-	-	-	43

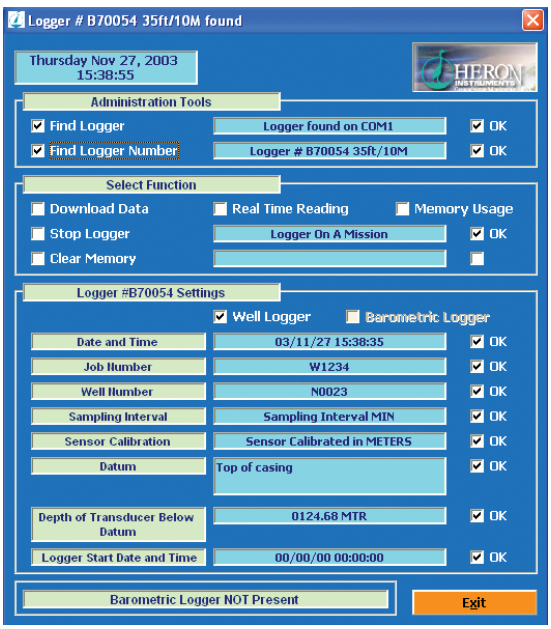
Change the battery every 12 months or at the start of each long term mission. For readings at second and minute intervals, change the battery after 25 cycles (16000 readings each cycle).

Package

- **dipper-log** includes well head read out unit, universal head bracket and 50ft/15m cable
- Extra cable available
- **dipper-log** software package*
- Read out cable*
- Barometric logger - **bar-log** (optional)**
- Graphics package (optional)*
- **dipper-log** on a reel (optional)

* May be used with multiple **dipper-logs**

**One unit should be used for each job site. (job number)



Read out unit

Showing the head bracket

Read out unit

Showing Battery Position

dipper-log on Reel

Powered by 9V Battery
300 ft/100m cable

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