

HERON
INSTRUMENTS INC.
Groundwater Monitoring

dipperLog NANO

The Affordable Groundwater Level Data Logger

Warranty: 1 year (limited)

The **dipperLog NANO** is a topline, low cost, accurate, user friendly groundwater data logger. They are used by groundwater professionals requiring a durable and reliable, cost effective solution to **long term** monitoring of groundwater levels in boreholes and open bodies of water. The Heron logger is also ideal for applications involving **short term** pump and slug testing, or for wetland and tidal studies.

With an intuitive program, the **dipperLog NANO** is simple to launch and data recovery is fast and easy. The large black font on yellow gives high visibility on your screen while working in the field.

The Heron Instruments' **dipperLog NANO** system allow users to enhance their data logging projects using a family of compatible and affordable accessories.

Features included with the dipperLog NANO:

- Memory – 32,000 data sets (depth and temperature of water)
- Download Speed – 32,000 data sets in 90 seconds
- Battery – life of approx. 7 years based on 5 minute reading intervals
- Calibration Certificate – with each logger
- Antifouling Screen

Available options:

- Corrosion proof Delrin or stainless steel
- **barLog NANO** for automatic barometric compensation
- Vented logger
- **tapNtell** for instant real time readings
- **showNtell** hand held display
- **SDI12** interface cable



www.heroninstruments.com

dipperLog NANO

SELECTION GUIDE:

dipperLog NANO available in Stainless Steel or Delrin

Item	S/S Part #	Delrin Part #
dipperLog NANO B (30ft/10m)	5201 NANO-BS/S	5101 NANO-BDeI
dipperLog NANO C (100ft/30m)	5202 NANO-CS/S	5102 NANO-CDeI
dipperLog NANO D (200ft/60m)	5203 NANO-DS/S	5103 NANO-DDeI
dipperLog NANO E (400ft/120m)	5204 NANO-ES/S	5104 NANO-EDeI
*vented logger available		5206 VENTED (pressure range)

1 SUSPENDED VERSION Remove from Well to Download



Item	Part #
dipperLog NANO	(as per above)
S/S Suspension Wire (feet)	5005F SSwire (per ft)
S/S Suspension Wire (meters)	5005M SSwire (per m)
PC Communication Cable	5009 PC/USBcable
dipperLog Software	5008 dLog USB

2 REEL VERSION Portable



Item	Part #
dipperLog NANO	(as per above)
Reel for dipperLog Lrg.	5013 dLogReelLrg
Reel for dipperLog Reg.	5012 dLogReelReg
Direct Read Down Hole Cable (feet)	5010F DHcable (per ft)
Direct Read Down Hole Cable (meters)	5010M DHcable (per m)
PC Communication Cable	5009 PC/USBcable
dipperLog Software	5008 dLog USB

3 WELL HEAD READOUT VERSION Leave in the Well to Read



Item	Part #
dipperLog NANO	(as per above)
Direct Read Down Hole Cable (feet)	5010F DHcable (per ft)
Direct Reade Down Hole Cable (meters)	5010M DHcable (per m)
Vented cable (feet)*	5032F Vcable (per ft)
Vented cable (meters)*	5033M Vcable (per m)
Direct Read Well Head / Mounting Kit	5011 WellHead/Mount Kit
PC Communication Cable	5009 PC/USBcable
dipperLog Software	5008 dLog USB

ACCESSORIES:

PC Communication Cable and Software 5009 PC/USB Cable	tapNtell surface mount display 5020 tapNtell	barLog NANO for barometric comp. 5116 NANO-barLog	SDI-12 Interface Cable 5021 SDI-12	showNtell Hand Held Display 5018 ShowNtell
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Deployment Options:

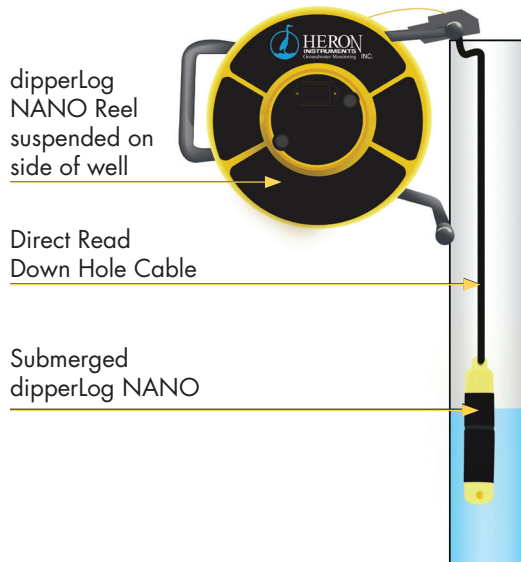
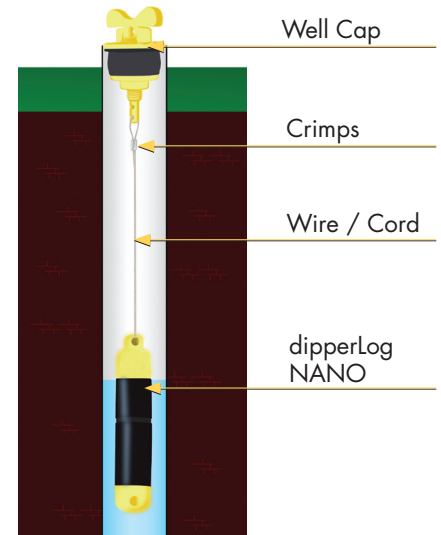
① SUSPENDED VERSION - ECONOMICAL

This option is suitable for clients who are looking for a lower cost alternative for **long term** monitoring.

The **dipperLog NANO** can be suspended in the well using a non-corrosive, no-stretch wire or cord.

The **dipperLog NANO** will need to be raised to the surface for downloading and re-programming.

Real time readings are not available with this option.



② REEL VERSION - PORTABLE

This option is appropriate for easy portability from well to well for **short term** monitoring. Allows the user access to the **dipperLog NANO** while the logger continues to take readings in the well.

Downloading and re-programming can be done without removing the logger from the well.

Real time readings are available with this option.

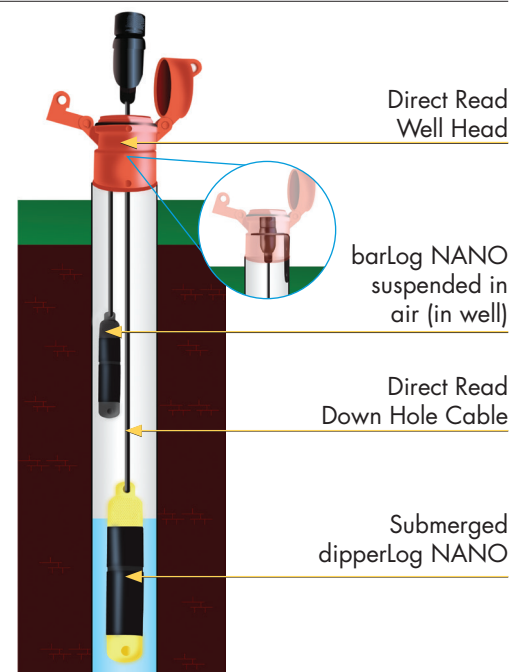
③ WELL HEAD READOUT VERSION - MOST POPULAR

This option is suitable for **long term** monitoring with easy access for data download and real time readings.

Downloading and re-programming can be done without removing the logger from the well.

Real time readings are available with this option.

Vented version available.





dipperLog NANO Specifications

Transducer	Piezoresistive Silicon 316LSS
Construction Material	All Delrin (corrosion resistant Acetal Copolymer) or Stainless Steel and Delrin Combination
Hydrostatic Depth Range	0-120M/400F
Accuracy (Typical)	0.05% net FS
Accuracy (Max. error)	0.1% net FS
Pressure Resolution	0.006% net FS
Temperature Sensor	IC Temp Sensor
Temperature Accuracy	+/- 0.5 Deg. C
Temperature Resolution	0.0625 Deg. C
Transducer Temp Compensation Range	0 Deg. C to + 50 Deg. C
Temp Response Time	10 Seconds
Battery Type	3.6 Volt Lithium
Battery Life	Approx. 7 Years @ 5 Minute Readings
Clock Accuracy	+/- 1 Minute per Month
Long Term Stability	+/- 0.2% FS per Year
Operating Temperature	-20 Deg. C to +80 Deg. C
Memory	Non - Volatile EEPROM
Max. Readings Between Downloads	32,000 Sets - Water Depth and Temperature
Communication	USB RS232 SDI 12
Download Speed	1.5 Minutes (32,000 Data Sets)
Dimensions	100mm (4in) Long x 22.5 mm (0.875 in) Diameter
Weight	Delrin -70grams Effective Specific Gravity 2 Stainless Steel - 135 grams Effective S.G 4
Wetted Materials	Stainless Steel, Viton, Acetal Copolymer (Delrin)
Sampling Modes	Linear - Real Time - "Log" Time (see below)
Logging Intervals	Seconds, Minutes, Hours - Min. 1sec, Max. 255hrs
Download Speed	19.2 k/bits per Second
Units of Measure	Feet and Meters
Antifouling Screen	Weight 22g Length 50mm Dia 25mm Material Phosphor Bronze (98% copper)

Note: In "Log time" mode the **dipperLog NANO** increases the readings from 1 second by an additional 1 second for 255 readings. The final reading interval is 4 min and 14 secs, and the logger then stops logging. This mode logs for a total of 9 hours before stopping.

HERON INSTRUMENTS INC.

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Please visit our website www.heroninstruments.com for more information on the complete Heron line.

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