

# Vented Logger

The Vented dipperLog NANO is a reliable and cost effective solution to long term monitoring of groundwater levels and temperature in wells, boreholes and open bodies of water. The Heron vented logger is also ideal for applications involving short term pump and slug testing, or for wetland and tidal studies.

The direct read cable with the built in vent tube enables the logger to automatically compensate for barometric pressure changes. The sintered Teflon air filter in the direct read well head prevents moisture build up in the vent tubing. The unique design of the filter does not require replacement.

Please note, to request a quote, this product is found on the dipperLog NANO page (within Deployment Options).



## Feature and advantages

- 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

## Accessories and Options

### tapNtell Water Level Measurement Sensor & Water Temperature Sensor

The tapNtell and the companion unit, the showNtell, are small water temperature sensor and water level meters that will give you an instant real time reading of height and temperature of the water above the transducer. These units enable the dipperLog NANO to become a convenient tool for getting an instant reading from the logger without taking a computer to the site.



### showNtell

The showNtell and the companion unit, the tapNtell, are small water temperature sensor and water level meters that will give you an instant real time reading of height and temperature of the water above the transducer. These units enable the dipperLog NANO to become a convenient tool for getting an instant reading from the logger without taking a computer to the site.



### SDI-12 Enables Global Communication with the dipperLog NANO's

One of the factors that makes our Serial Digital Interface at 1200 Baud (SDI-12) cable particularly useful is that it operates using a battery but has a negligible current drain. This allows it to maintain the same long life as the the dipperLog NANO.

Construction Material: ABS/Delrin  
 Operating Temperature: -20 °C to +85 °C  
 Operating Voltage(DC): 7.5 – 35VDC  
 Supply Current (Stand-by): 10µA  
 Supply Current(Active): 1.5mA  
 Weight: 200g



Technical Specifications	
<b>Transducer</b>	Piezoresistive Silicon 316LSS
<b>Construction Material</b>	316 Stainless Steel and Delrin (Corrosion Resistant Engineered Thermoplastic) Combination
<b>Accuracy (Typical)</b>	0.05% net FS, for Pressure Ranges > 120m/400ft 0.25% net FS
<b>Accuracy (Max. Error)</b>	0.1% net FS, for Pressure Ranges > 120m/400ft 0.5% net FS
<b>Hydrostatic Depth Range</b>	120m/400ft
<b>Accuracy (Typical)</b>	0.05% net FS
<b>Accuracy (Max. Error)</b>	0.1% net FS
<b>Resolution</b>	0.006% net FS
<b>Temperature Sensor</b>	IC Temp Sensor
<b>Temperature Accuracy</b>	+/- 0.5 Deg. C
<b>Resolution</b>	0.0625 Deg. C
<b>Transducer Temp Compensation Range</b>	0 Deg. C to + 50 Deg. C
<b>Temp Response Time</b>	10 Seconds
<b>Battery Type</b>	3.6 Volt Lithium
<b>Battery Life</b>	Approx. 7 Years @ 5 Minute Readings
<b>Clock Accuracy</b>	+/- 1 Minute per Month
<b>Long Term Stability</b>	+/- 0.2% FS/year
<b>Operating Temperature</b>	-20 Deg. C to +80 Deg. C
<b>Memory</b>	Non - Volatile EEPROM
<b>Max. Readings Between Downloads</b>	32,000 Sets - Pressure and Temperature
<b>Communication</b>	USB, RS232, SDI 12
<b>Download Speed</b>	1.5 minutes (32,000 data sets)
<b>Dimensions</b>	100mm (4in) Long x 22.5 mm (0.875 in) Diameter
<b>Weight</b>	135grams Effective S.G 4
<b>Wetted Materials</b>	Stainless Steel, Viton, Engineered Thermoplastic (Delrin)
<b>Sampling Modes</b>	Linear - Real Time - "Log Time" (see below)
<b>Logging Intervals</b>	Seconds, Minutes, Hours - Minimum 1sec, Max 255hrs
<b>Download Speed</b>	19.2 k/bits per Second
<b>Units of Measure</b>	ft /M of water (head) in normal mode. Any units when saved as CSV file
<b>Antifouling Screen</b>	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.	
<b>Barometric Compensation</b>	One real time reading taken during launch procedure and used for all readings unless a barLog is used. Automatic compensation when using a designated barLog. Manual compensation in Excel. Self-compensating when using vented version.
<b>Direct Read Cable</b>	3.5mm diameter, Polyurethane jacket with 3 Mylar wrapped, Teflon insulated, stranded tinned copper conductors. Woven copper shielding and reinforced stretch resistant Kevlar. Weight 12 grams per meter.
<b>Vented Cable</b>	6.25mm diameter Polyurethane jacketed. 4 stranded insulated T.C conductors. 1 stranded T.C drain line, 2.5mm nylon vent tube. Reinforced with Kevlar and an aluminium shield. Weight 34 grams per meter.
<b>Limited Warranty</b>	1 Year