

Groundwater Data Logging Made Affordable

Heron Instruments' dipperLogs are a durable, versatile and cost effective tool which will deliver accurate water level and temperature readings for many years. Groundwater professionals have been successfully employing the **Heron** family of instrumentation to monitor both open waters and wells, to perform pump and slug tests, and to complete wetland and tidal studies with excellent results for over 20 years.

With the dedicated, intuitive software, the **dipperLog** is quick and easy to program and launch and allows for simple data recovery. Easily save your data in a tabular display and graph and view both parameters side by side in a split screen.

Heron also offers various accessories to further enhance your logging experience. The wide range of transducer values (available in both absolute and vented models) will ensure the collection of the most accurate of levels.



dipperLog^{TOUGH}

dipperLog TOUGH is a premium logger, with titanium body and transducer coupled with Teflon O-rings, is suitable for use in the most caustic and hazardous of environments. The dipperLog TOUGH offers a memory capacity of 64,000 data points and a choice of pressure ranges.



dipperLog^{VENTED}

The dipperLog VENTED, incorporates a gauged transducer that measures pressure exempt from barometric influences. The dipperLog VENTED is removable from the vent cable allowing for easy field replacement. Attach the NEW Vent Cap Adapter for deployments (without vented cable) used in shallow wetland studies.



dipperLog³²

dipperLog 32, the most economical data logger in our lineup, has a maximum storage capacity of **32,000 data points** and an expected battery life up to 5 years\$. The dipperLog 32 is only available in a 30m/100' pressure range.



dipperLog⁶⁴

The dipperLog 64, our flagship logger, offers a maximum storage capacity of 64,000 data points and an extended battery life up to 10 years). The dipperLog 64 comes in a wide variety of pressure ranges and deployment options.



4-20mA^{Pressure Transmitter}

The 4-20 mA Pressure Transmitter is easily integrated into an existing SCADA system or with a third party data logger. It will provide a continuous water level reading for your application. It can also be equipped with a digital display.



barLog

The **barLog** is configured to **measure barometric pressure fluctuations** necessary to compensate your absolute **dipperLog** data files. The **barLog** takes readings every 1 hour and has a capacity for **32,000 data points.**

 \Diamond Dependent upon use

Specifications			
	dipperLog ^{тоидн}	dipperLog ⁶⁴	dipperLog ^{vented}
Performance			
# of Data Points	64,000	64,000	64,000
Download Speed	21,333.33/min	21,333.33/min	21,333.33/min
Accuracy %FS	0.05	0.05	0.05
Stability %FS/Year	0.20	0.20	0.20
Operating Features			
Pressure Ranges	10m/30ft, 30m/100ft, 60m/200ft, 120m/400f	t 10m/30ft, 30m/100ft, 60m/200ft, 120m/400f	ft 10m/30ft, 30m/100ft, 60m/200ft, 120m/400ft
Overpressure Rating	2X	2X	2X
Operating Temperature	-20°C to 80°C	-20°C to 80°C	-20°C to 80°C
Pressure Resolution	0.001	0.001	0.001
Expected Battery Life◊	Up to 10 Years	Up to 10 Years	Up to 10 Years
Warranty	3 Years	3 Years	3 Years
Physical Characteristics			
Wetted Material	Titanium & Delrin®	316 SS & Delrin®	316 SS & Delrin®
O-Rings	Teflon™	Viton™	Viton™
Transducer	Titanium Piezoresistive Silicon	316 SS Piezoresistive Silicon	316 SS Piezoresistive Silicon
Length	130mm	130mm	130mm
Diameter	22mm	22mm	22mm
Weight	105g	160g	160g
Deployment Options			

Deployment Options

All Absolute Deployments Require Compensation

*Features Available for Additional Costs *⁴dipperLog-SMART Wireless Monitoring System Compatible

◊ Dependent upon use



Accessories:



Suspended Version

and reprogramming.

This is the simplest and most inexpensive method

dipperLog in the well using a non-corrosive, no-

of deploying a **dipperLog**. Suspend the

stretch wire or cord. No communication is possible with the dipperLog in-situ, the dipperLog

must be programmed and started before

deployment then recovered for data retrieval

Add the Vent Cap Adapter to the dipperLog

VENTED for deployments in shallow wetland

Wireless Communication*

Direct Read Well Head Version

Direct Read*, Reel*

This is the least labour intensive option. The dipperLog is suspended on a direct read cable, which establishes a connection to the dipperLog at the wellhead. Programming of the dipperLog, downloading of data and stopping and starting data collection can be done while the logger is deployed.

Available in both absolute and vented models. Real time display is available with this configuration



Specifications			
dipperLog ³²	4-20mA ^{Pressure Transmitter}	barLog	
			Performance
32,000	N/A	32,000	# of Data Points
21,333.33/min	N/A	21,333.33/min	Download Speed
0.10	0.05	0.05	Accuracy %FS
0.40	0.20	0.20	Stability %FS/Year
			Operating Features
30m/100ft	10m/30ft, 30m/100ft, 60m/200ft, 120m/40	00ftN/A	Pressure Ranges
2X	2X	2X	Overpressure Rating
-10°C to 50°C	-20°C to 80°C	-20°C to 80°C	Operating Temperature
0.01	0.001	0.001	Pressure Resolution
Up to 5 Years	N/A	Up to 10 Years	Expected Battery Life◊
1 Year	3 Years	3 Years	Warranty
			Physical Characteristics
316 SS & Delrin®	316 SS & Delrin®	316 SS & Delrin®	Wetted Material
Viton™	Viton™	Viton™	O-Rings
316 SS Piezoresistive Silicon	316 SS Piezoresistive Silicon	316 SS Piezoresistive Silicon	Transducer
105mm	130mm	105mm	Length
22mm	22mm	22mm	Diameter
130g	160g	130g	Weight
Suspended*, Direct Read*, Reel*	N/A	N/A	Deployment Options All Absolute Deployments Require Compensation *Features Available for Additional Costs *^dipperLog-SMART Wireless Monitoring System Compatible



Reel Version

The reel version is an ideal option when transporting your dipperLog from site to site for pump and slug tests or any other short term deployment. Programming and downloading of the data is capable via the connection on the face plate on the reel. Available in both absolute and vented models.

Real time display is available with this configuration.





4-20mA The 4-20mA Pressure Transmitter is easy to install by simply attaching the vented cable to an existing SCADA system. A two wire 4-20mA current loop is used for signal transmission. This

◊ Dependent upon use

is a pressure sensor only and has no data logging capability.

SCADA systems are not available through Heron Instruments.



Selection Guide

Pressure Range	dipperLog ^{tough}	dipperLog ⁶⁴	dipperLog ^{VENTED}	dipperLog ³²
B (10m/30ft)	5401-Ti	5401-64	5401-V	N/A
C (30m/100ft)	5402-Ti	5402-64	5402-V	5402-32
D (60m/200ft)	5403-Ti	5403-64	5403-V	N/A
E (120m/400ft)	5404-Ti	5404-64	5404-V	N/A

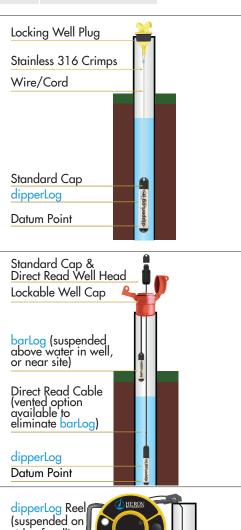
Suspended Version (Remove from Well to Communicate)

Absolute Logger	Vented Logger
dipperLog (64, TOUGH, 32)	dipperLog Vented
barLog for Barometric Compensation	Vent Cap Adapter
Stainless Steel Suspension Wire	Stainless Steel Suspension Wire
Kevlar Suspension Cord	Kevlar Suspension Cord
Suspension Crimps	Suspension Crimps
PC Communication Cable	PC Communication Cable
dipperLog Software	dipperLog Software

Direct Read Version (Communicate While in Well)		
Absolute Logger	Vented Logger	
dipperLog (64, TOUGH, 32)	dipperLog Vented	
Direct Read Cable	Vented Direct Read Cable	
Direct Read Well Head	Vented Direct Read Well Head	
Mounting Bracket	Mounting Bracket	
PC Communication Cable	PC Communication Cable	
barLog for Barometric Compensation	N/A	
dipperLog Software	dipperLog Software	

Reel Version (Portable, Communicate While in Well)

Absolute Logger	Vented Logger
dipperLog (64, TOUGH, 32)	dipperLog Vented
Reel	Vented Reel
Direct Read Cable	Vented Direct Read Cable
PC Communication Cable	PC Communication Cable
barLog for Barometric Compensation	N/A
dipperLog Software	dipperLog Software



(suspended on side of well) Direct Read Cable, (vented option available) dipperLog (all Heron dipperLogs are available on a reel)

dipperLog 10

Datum Point

HERON INSTRUMENTS INC.

447 Moxley Rd. Dundas, ON Canada L9H 5E2 | TF: 800-331-2032 | T: 905-628-4999 | info@heroninstruments.com Please visit our website **www.heroninstruments.com** for more information on the complete **Heron** line.

🌞 Made in Canada