HERON INSTRUMENTS INC.

dipperLog

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 64*

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.

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.*

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.

dipperLog 32

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.

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.**

◊ Dependent upon use
** Manufactured with wetted materials not known to contain PFAS*

www.heroninstruments.com

Specifications

	dipperLog TOUGH	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/400ft	10m/30ft, 30m/100ft, 60m/200ft, 120m/400ft	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™	Rubber Buna	Rubber Buna
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 All Absolute Deployments Require Compensation **Features Available for Additional Costs* **Δ Wireless Monitoring System Compatible*	Suspended*, Direct Read*, Reel*, dipperLog SMART*Δ	Suspended*, Direct Read*, Reel*, dipperLog SMART*Δ	Suspended*, Direct Read*, Reel*

◊ Dependent upon use

Suspended Version

This is the simplest and most inexpensive method of deploying a dipperLog. Suspend the dipperLog in the well using a non-corrosive, no-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 and reprogramming.

Add the Vent Cap Adapter to the dipperLog VENTED for deployments in shallow wetland studies.

Direct Read Well Head Version

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.

Accessories:

Software & PC Communication Cable

PN# 5008 PN# 5009

barLog for Barometric Compensation

PN# 5116

tapNtell Surface Mount Display

PN# 5020

showNtell Hand Held Display

PN# 5018

Digital Display 4-20mA

PN# 5031

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/400ft	N/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**
Rubber Buna	Rubber Buna	Rubber Buna	**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*
**△Wireless Monitoring System Compatible*

◊ Dependent upon use

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

SCADA systems are not available through Heron Instruments.

SDI-12 Interface Cable

PN# 5021

Vent Cap Adapter for dipperLog VENTED

For Shallow Wetland Studies

PN# 5035

Well Mounting Kit

PN# 5023

Lockable Well Caps

PN# 5007 PN# 5006

dipperLog Carry Case

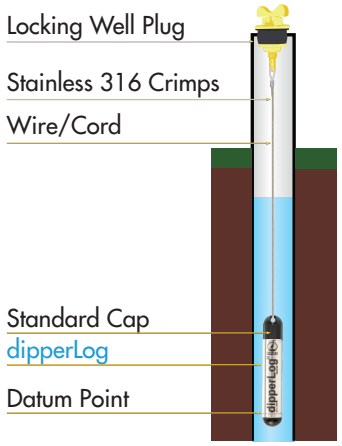
PN# 7500

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

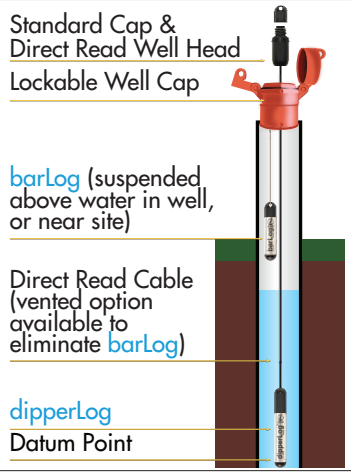
Suspended Version *(Remove from Well to Communicate)*

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



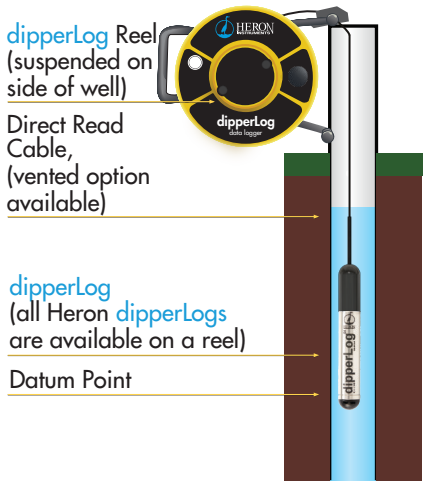
Direct Read Version *(Communicate While in Well)*

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



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

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