



Since 1995

**HERON**  
INSTRUMENTS INC.

## **dipperLog 128+, Tough+, Vented+, 64+, 32+ Data Loggers**



### **Extremely Accurate Groundwater Pressure & Temperature Readings**

Heron Instruments' +Series of dipperLogs incorporate a **NIST Traceable** temperature sensor for some of the most accurate temperature readings you can find in a groundwater data logger (N/A: dipperLog 64+ & dipperLog 32+)

### **Memory Capacity**

dipperLog 128+, Tough+, Vented+ and barLog all have a memory capacity of **128,000** data sets allowing for plenty of data collection over the course of your project.

### **Battery Life+**

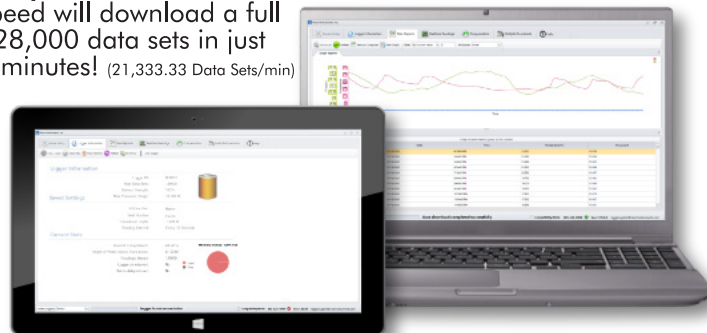
With increased memory, requires increased battery life. In ideal conditions, the dipperLog 128+, Tough+, Vented+ and barLog will last up to **15 years** in the field or up to **5,000,000** total readings.

### **Titanium Tough+ Model**

The premium dipperLog Tough+ Groundwater Data Logger is manufactured with a durable **Titanium** body. The primary O-Ring is made of **Teflon™** to protect the **Titanium Piezoresistive Silicon** transducer within the logger. This logger is suitable for use in the most caustic and hazardous monitoring environments.

### **Fast, User-Friendly, Capable - dipperLog Software**

All of the + series of dipperLogs are compatible with the user-friendly dipperLog Software. Within the dipperLog Software, users are able to **download**, **export** and **barometrically compensate** their collected data. Our best-in-class download speed will download a full 128,000 data sets in just 6 minutes! (21,333.33 Data Sets/min)



**BELL**  
Flow Systems

# Data Logger Specifications

Absolute Groundwater Data Loggers					
Logger Type		dipperLog TOUGH+	dipperLog 128+	dipperLog 64+	dipperLog 32+
Performance	# of Data Sets	128,000	128,000	64,000	32,000
	Download Speed	21,333.33 Data Sets/min (128,000 readings download in 6 minutes)	21,333.33 Data Sets/min (128,000 readings download in 6 minutes)	21,333.33 Data Sets/min (64,000 readings download in 3 minutes)	21,333.33 Data Sets/min (32,000 readings download in 1.5 minutes)
	Water Level Accuracy (Typical)	+/- 0.05%FS (0°C to 50°C)	+/- 0.05%FS (0°C to 50°C)	+/- 0.05%FS (0°C to 50°C)	+/- 0.1%FS (0°C to 40°C)
	Temperature Accuracy (Typical)	+/- 0.05°C Temperature Sensor Meets ASTM E1112 and ISO 80601-2-56. NIST Traceability.	+/- 0.05°C Temperature Sensor Meets ASTM E1112 and ISO 80601-2-56. NIST Traceability.	+/- 0.5°C	+/- 0.5°C
Operating Features	Pressure Ranges	10m/30ft (14PSI), 30m/100ft (43PSI), 60m/200ft (85PSI), 120m/400ft (171PSI)	10m/30ft (14PSI), 30m/100ft (43PSI), 60m/200ft (85PSI), 120m/400ft (171PSI)	10m/30ft (14PSI), 30m/100ft (43PSI), 60m/200ft (85PSI), 120m/400ft (171PSI)	30m/100ft (43PSI)
	Overpressure Rating	2X Factory Calibrated Range	2X Factory Calibrated Range	2X Factory Calibrated Range	2X Factory Calibrated Range
	Operating Temperature	-20°C to 80°C (-5°F to 175°F)	-20°C to 80°C (-5°F to 175°F)	-20°C to 80°C (-5°F to 175°F)	-20°C to 80°C (-5°F to 175°F)
	Pressure Resolution %FS	0.001	0.001	0.001	0.01
	Battery Life (Depending On Usage)	Up to 5,000,000 Readings Up to 15 Years	Up to 5,000,000 Readings Up to 15 Years	Up to 3,750,000 Readings Up to 10 Years	Up to 2,500,000 Readings Up to 5 Years
	Warranty	3 Years	3 Years	2 Years	1 Year
Physical Characteristics	Wetted Material	Titanium, Delrin®, Teflon™	316 SS, Delrin®, Buna-N	316 SS, Delrin®, Buna-N	316 SS, Delrin®, Buna-N
	O-Ring (Primary)	Teflon™	Buna-N	Buna-N	Buna-N
	O-Ring (Backup)	Viton	Viton	Viton	Viton
	Transducer	Titanium Piezoresistive Silicon	316 SS Piezoresistive Silicon	316 SS Piezoresistive Silicon	316 SS Piezoresistive Silicon
	Length	145mm / 5.7"	145mm / 5.7"	145mm / 5.7"	145mm / 5.7"
	Diameter	22mm / 0.87"	22mm / 0.87"	22mm / 0.87"	22mm / 0.87"
	Weight	150g	170g	170g	170g
Deployment Options		Suspended, Direct Read, Reel	Suspended, Direct Read, Reel	Suspended, Direct Read, Reel	Suspended, Direct Read, Reel

Vented Groundwater Data Loggers			Barometric Loggers		
Logger Type		dipperLog VENTED+	barLog		
Performance	# of Data Sets	128,000	128,000		
	Download Speed	21,333.33 Data Sets/min (128,000 readings download in 6 minutes)	21,333.33 Data Sets/min (128,000 readings download in 6 minutes)		
	Water Level Accuracy (Typical)	+/- 0.05%FS (0°C to 50°C)	+/- 0.05%FS (0°C to 50°C)		
	Temperature Accuracy (Typical)	+/- 0.05°C Temperature Sensor Meets ASTM E1112 and ISO 80601-2-56. NIST Traceability.	+/- 0.05°C Temperature Sensor Meets ASTM E1112 and ISO 80601-2-56. NIST Traceability.		
Operating Features	Pressure Ranges	10m/30ft (14PSI), 30m/100ft (43PSI), 60m/200ft (85PSI), 120m/400ft (171PSI)	N/A		
	Overpressure Rating	2X Factory Calibrated Range	2X Factory Calibrated Range		
	Operating Temperature	-20°C to 80°C (-5°F to 175°F)	-20°C to 80°C (-5°F to 175°F)		
	Pressure Resolution %FS	0.001	0.001		
	Battery Life (Depending On Usage)	Up to 5,000,000 Readings Up to 15 Years	Up to 5,000,000 Readings Up to 15 Years		
	Warranty	3 Years	3 Years		
Physical Characteristics	Wetted Material	316 SS, Delrin®, Buna-N	N/A		
	O-Ring (Primary)	Buna-N	Buna-N		
	O-Ring (Backup)	Viton	Viton		
	Transducer	316 SS Piezoresistive Silicon	316 SS Piezoresistive Silicon		
	Length	145mm / 5.7"	145mm / 5.7"		
	Diameter	22mm / 0.87"	22mm / 0.87"		
	Weight	170g	170g		
Deployment Options		Direct Read	N/A		