



**dipperLog 128+ (Series 54128)**



## dipperLog 128+ Specifications

General			
<b>Memory</b>	128,000 readings		
<b>Download Speed</b>	19,200bps (128,000 readings downloads in 6 minutes)		
<b>Factory Calibrated Ranges</b>	10m(aprx. 30ft), 30m(aprx. 100ft), 60m(aprx. 200ft), 120m(aprx. 400ft)		
<b>Operational Range</b>	10m(aprx. 30ft), 30m(aprx. 100ft), 60m(aprx. 200ft), 120m(aprx. 400ft) All ranges are representative of use at sea level. Use above sea level will result in higher operational range		
<b>Overpressure Rating</b>	2X Factory Calibrated Range		
<b>Operating Temperature</b>	-20°C to 80°C		
<b>Battery Life (Readings)</b>	up to 5 million (depending on usage)		
<b>Battery Life (Max)</b>	Up to 15 Years (depending on usage)		
<b>Wetted Material</b>	316 Stainless Steel, Delrin® & Rubber Buna (PFAS free Wetted Materials)		
<b>Length</b>	14.5cm (5.7")		
<b>Diameter</b>	22mm (9")		
<b>Weight</b>	170g (.37lbs)		
<b>dipperLog Cable</b>	Polyurethane Jacketed. Diameter -Absolute 1/8", Vented 1/4" (Nominal)		
Pressure	Test Condition	Typical	Max
<b>Water Level Accuracy (Typical)</b>	+/-0.05%FS (0°C to 50°C)		
<b>Water Level Accuracy (Max Error)</b>	+/-0.1%FS (0°C to 50°C)		
<b>Water Level Resolution</b>	0.01%FS		
<b>Pressure Accuracy</b>	Typical error band of +/-0.3%FS		
<b>Pressure Response Time</b>	100ms		
<b>Pressure Stability</b>	500,000 pressure cycles from 0% to 50%FS	+/-0.05%FS/y	+/-0.1%FS/y
Temperature	Test Condition	Typical	Max
<b>Temperature Accuracy Typical</b>	-20°C to +50°C	+/-0.05°C	+/-0.1°C
	-40°C to +70°C	+/-0.05°C	+/-0.15°C
	-40°C to +100°C	+/-0.1°C	+/-0.2°C
	-55°C to +125°C	+/-0.1°C	+/-0.25°C
	-55°C to +150°C	+/-0.1°C	+/-0.3°C
<b>Temperature Resolution</b>	0.0078°C		
<b>Temperature Reading Range</b>	-55°C to +150°C		
<b>Temperature compensated range</b>	0°C to 50°C		
<b>Temperature Response Time</b>	2 minutes		
<b>Lifetime Temperature Stability</b>	300 hours continual reading at 150°C	+/-0.03°C	
<b>Temperature Repeatability</b>	8 Averages	+/-0.0078°C	
<b>Temperature cycling and hysteresis</b>	8 Averages	+/-0.0156°C	
<b>Temperature sensor meets ASTM E1112 and ISO 80601-2-56. Nist Traceability</b>			
Characteristics			
<b>Communication Protocol</b>	RS-232 (custom implementation)		
<b>Battery</b>	Lithium Cell		
<b>Realtime clock crystal accuracy</b>	32,768Hz +/- 10ppm		
<b>O-Rings</b>	Rubber Buna Primary Seals, Viton Secondary Seals		
<b>Transducer Material</b>	316 Stainless Steel, Piezoresistive Silicon		
<b>Logging Modes</b>	Linear, and predetermined Log		
<b>Launch modes</b>	Immediate and future start		
<b>Environmental Rating</b>	IP68		
<b>Certification</b>	CE		
<b>Communication Interfaces</b>	USB via Heron Com-Cable		
<b>Programing</b>	Desktop Application (Windows 10, Windows 11)		
<b>Logging Intervals</b>	1 second to 255 hours		
<b>Supported Pressure Units</b>	mH2O (Meters), ftH2O (Feet), psi, bar, atm, cmHg, hPa, inH2O, inHg, kgf/cm <sup>2</sup> , kgf/m <sup>2</sup> , Kpa, Mpa, ksi, mmHg, N/m <sup>2</sup> , psf, Pa, Torr		
<b>Supported Temperature Units</b>	Celsius, Fahrenheit, Kelvin, Rankine		

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