



barLog (PN 5116)

barLog Specifications

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

A-825-5116-003 Rev A Heron2021