SBE 39plus with Titanium Housing, 7000 dBar Pressure Sensor, MCBH Connector, Internal Thermistor

Product #:   39P.38210S

USD Price: Contact Sea-Bird

Temperature and (optional) Pressure, at user-programmable intervals. Internal memory and battery pack, RS-232 and USB interface. Configurations with internal or external thermistor, external connector, pressure.

The SBE 39plus is a high-accuracy, fast-sampling temperature (pressure optional) recorder with USB interface, internal batteries, and memory. The 39plus is designed for moorings or other long-duration, fixed-site deployments, as well as deployments on nets, towed vehicles, or ROVs.

Data is recorded in memory and can also be output in real-time. Measured data are output in engineering units. Memory capacity exceeds 9.5 million samples without pressure, or 5.5 million samples with pressure. Sampling every 0.5 sec, this yields approximately 55 days of data without pressure or 32 days with pressure (battery endurance exceeds memory capacity).

Flexible Sampling Options
Temperature, Pressure (optional), and time, at user-programmable 0.5-sec to 6-hour intervals.

Multiple Communication Options
Internal USB interface (open housing and plug in cable for setup and fast data upload); plus RS-232 interface (through external connector).

Power and Memory
Internal memory and battery pack (can be powered through external connector).

Data Quality
Rigorous 11-point temperature calibration of each sensor. Aged and pressure-protected thermistor has a long history of exceptional accuracy and stability.

Specifications

Connector:	MCBH
Data Memory:	9.5 million samples
Housing Material:	Titanium
Pressure Initial Accuracy:	± 0.1% of full scale range
Pressure Resolution:	0.002% of full scale range
Pressure Sensor/Range:	7000 dBar
PressureTypical Stability:	0.05% of full scale range per year
Temperature Accuracy:	± 0.002 (-5 to +35 °C); ± 0.01 (+35 to +45 °C)
Temperature Range:	-5 to +45 °C
Temperature Resolution:	0.0001 °C
Temperature Stability:	0.0002 °C per month

Thermistor: Internal