



## **SBE 37 SMP with Plastic Housing, 100 dbar Pressure Sensor, MCBH Connector, RS-232, No Oxygen Sensor, Includes Accessories**

**Product #:** 37SMP.12200S  
**USD Price:** Contact Sea-Bird

**Moored Conductivity, Temperature, and (optional) Pressure measurements, at user-programmable intervals. RS-232, RS-485, or dual RS-232 and SDI-12 interface, internal memory, and internal battery pack.**

The SBE 37-SMP pumped MicroCAT is a high-accuracy conductivity and temperature (pressure optional) recorder with Serial interface (RS-232 or RS-485), internal batteries, Memory, and integral Pump. The MicroCAT is designed for moorings or other long-duration, fixed-site deployments.

Data is recorded in memory and can be output in real-time. Measured data and derived variables (salinity, sound velocity) are output in engineering units.

Memory capacity exceeds 530,000 samples. Battery endurance varies, depending on sampling scheme. Sampling every 2-1/2 minutes, the MicroCAT can be deployed for 2 years (425,000 samples).

### **Optimal Moored CTD**

Moored Conductivity, Temperature, and Pressure (optional), at user-programmable 6-sec to 6-hour intervals.

### **Flexible Deployment Options**

Internal memory and battery pack (can be powered externally).

### **Integral Pump**

Pump runs for 1 second for each sample, providing improved conductivity response and bio-fouling protection.

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## **Specifications**

Communication:	RS-232
Conductivity Accuracy:	$\pm 0.0003$ S/m (0.003 mS/cm)
Conductivity Measurement Range:	0 - 7 S/m (0 - 70 mS/cm)
Conductivity resolution:	0.00001 S/m (0.0001 mS/cm)
Conductivity Typical Stability:	0.0003 S/m (0.003 mS/cm) per month
Connector:	MCBH
Dissolved Oxygen Accuracy:	N/A
Dissolved Oxygen Range:	N/A
Dissolved Oxygen Resolution:	N/A
Dissolved Oxygen Typical Stability:	N/A
Housing Material:	Plastic

Internal Batteries:	10.6 Amp-hour (nominal) battery pack (derated for calculations)
Power input:	0.25 Amps at 9 - 24 VDC
Pressure Initial Accuracy:	± 0.1% of full scale range
Pressure Resolution:	0.002% of full scale range
Pressure Sensor/Range:	100 dbar
PressureTypical Stability:	0.05% of full scale range per year
Pumps:	Yes
Sensors:	No Oxygen Sensor
Temperature Accuracy:	± 0.002 °C (-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
Weight:	3.4 kg in air, 1.6 kg in water.