



SBE 37 SMP with Titanium Housing, 1000 dbar Pressure Sensor, MCBH Connector, RS-232, No Oxygen Sensor, Includes Accessories

Product #: 37SMP.35200S
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.

Specifications

| | |
|-------------------------------------|------------------------------------|
| Communication: | RS-232 |
| Conductivity Accuracy: | ± 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: | Titanium |

| | |
|----------------------------|---|
| 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: | 1000 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: | 3.7 kg in air, 2.2 kg in water. |