



SBE 37 IMP with Plastic Housing, 100 dbar Pressure Sensor, Inductive Modem Telemetry, No Oxygen Sensor

Product #: 37IMP.12000S
USD Price: Contact Sea-Bird

Moored Conductivity, Temperature, and (optional) Pressure measurements, at user-programmable intervals. Inductive Modem (IM) interface, internal memory, and internal battery pack.

The SBE 37-IMP pumped MicroCAT is a high-accuracy conductivity and temperature (pressure optional) recorder with integrated Inductive Modem (IM) interface, internal batteries, memory, and integral Pump. The MicroCAT is designed for long-duration deployments on moorings.

Data is recorded in memory and can be transmitted when polled through inductive modem telemetry. Measured data are output in engineering units.

Memory capacity exceeds 530,000 samples. Battery endurance varies, depending on sampling scheme. Sampling every 3 minutes, the MicroCAT can be deployed for 2 years (380,000 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.

Inductive Modem Telemetry

Inductive Modem (IM) system provides reliable, low-cost, real-time data transmission for up to 100 IM-enabled instruments using plastic-coated wire rope (typically 3x19 galvanized steel) as both transmission line and mooring tension member. IM instruments clamp anywhere along the mooring, which is easily reconfigured by sliding and re-clamping instruments on the cable.

Integral Pump

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

Specifications

Communication:	Inductive Modem Telemetry
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
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)
Pressure Initial Accuracy:	± 0.1% of full scale range
Pressure Resolution:	0.002% of full scale range
Pressure Sensor/Range:	100 dbar Pressure Sensor
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