



SBE 37 IM with Titanium Housing, 100 dbar Pressure Sensor, Inductive Modem Telemetry, No Oxygen Sensor

Product #: 37IM.32000S
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-IM MicroCAT is a high-accuracy conductivity and temperature (pressure optional) recorder with integrated Inductive Modem (IM) interface, internal batteries, and memory. 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. Sampling every 2 minutes, the MicroCAT can be deployed for 2 years (battery endurance exceeds memory capacity).

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.

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:	Titanium
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:	No
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