

37-SMP-ODO

MICROCAT CT(D) DO

Overview

The SBE 37-SMP-ODO pumped MicroCAT is a high-accuracy conductivity and temperature (pressure optional) recorder with Serial interface (RS-232 or RS-485), internal batteries, Memory, integral Pump, and Optical Dissolved Oxygen. 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, specific conductivity) are output in engineering units.

Memory capacity exceeds 380,000 samples. Battery endurance varies, depending on sampling scheme and deployment temperature and pressure. Sampling every 15 minutes (10 °C, 500 dbar), the MicroCAT can be deployed for almost 9 months (25,000 samples).

Features

Moored Conductivity, Temperature, Pressure (optional), and Optical Dissolved Oxygen, at user-programmable 10-sec to 6-hour intervals

Integral pump

RS-232 or RS-485 interface

Internal memory and battery pack (can be powered externally)

Expendable anti-foulant devices, unique flow path, and pumping regimen for bio-fouling protection

Adaptive Pump Control for high-accuracy oxygen data

350 m plastic or 7000 m titanium housing

Seasonal V2 Windows software package (setup, data upload, and data processing)

Field-proven MicroCAT family, with more than 10,000 instruments deployed

Five-year limited warranty

Capabilities

Unique internal- field conductivity cell permits use of expendable anti-foulant devices, for long-term bio-fouling protection

Aged and pressure-protected thermistor has a long history of exceptional accuracy and stability

Optional strain-gauge pressure sensor with temperature compensation is available in eight ranges (maximum depth 7000 m)

Oxygen sensor is field-proven, individually calibrated SBE 63 Optical Dissolved Oxygen sensor

Pump runs for each sample, providing improved conductivity and oxygen response, bio-fouling protection, and correlation of CTD and oxygen measurements

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