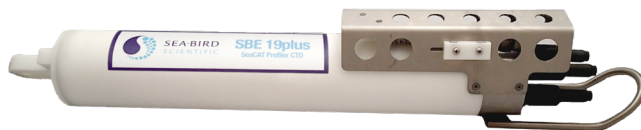


Moored sensors measure water parameters in one location over an extended period to produce a time-series of data. Sea-Bird Scientific offers a line of moored CTDs designed for diverse applications, from blue-ocean monitoring to freshwater deployments, with a range of sampling capabilities.

**T** = Temperature | **C** = Conductivity | **P** = Pressure | **DO** = Dissolved Oxygen



SeaCATs	Parameters (* = Optional)	Communication Options	
16plusV2	T, C, P* 6 Analog Sensor Ports 2 RS-232 Sensor Ports	RS-232	<ul style="list-style-type: none"> <li>Internal memory and batteries</li> <li>Real-time output</li> <li>Capable of supporting multiple auxiliary sensors</li> <li>Bio-fouling protection</li> <li>Depths to 600m, 7000m, and 10500m</li> <li>Next generation of the SeaCAT family, field-proven since 1987</li> </ul>
16plus-IM V2	T, C, P* 6 Analog Sensor Ports 2 RS-232 Sensor Ports	Inductive Modem RS-232 (Internal Only)	
19plusV2	T, C, P 6 Analog Sensor Ports 2 RS-232 Sensor Ports	RS-232	Capable of Moored or Profiling deployments: Emulates the 16plusV2 when configured in Moored Mode

## MicroCATs

37-SM	T, C, P*	RS-232 RS-485 SDI-12*	<ul style="list-style-type: none"> <li>Internal memory and batteries</li> <li>Real-time RS-232 output</li> <li>Integrated pump (SMP and SMP-ODO only)</li> <li>Depths to 350m and 7000m</li> <li>Bio-fouling protection</li> <li>Field-proven MicroCAT family, with more than 10,000 instruments deployed</li> </ul>
37-SMP	T, C, P*		
37-SMP-ODO	T, C, P*, DO		
37-SI	T, C, P*	RS-232 RS-485	<ul style="list-style-type: none"> <li>Internal memory</li> <li>Real-time RS-232 output</li> <li>Integrated pump (SIP only)</li> <li>Depths up to 7000 meters</li> <li>Bio-fouling protection</li> </ul>
37-SIP	T, C, P*		
37-IM	T, C, P*	Inductive Modem RS-232 (Internal Only)	<ul style="list-style-type: none"> <li>Internal memory and batteries</li> <li>Integrated Inductive Modem</li> <li>Real-time inductive modem output</li> <li>Integrated pump (IMP and IMP-ODO only)</li> <li>Depths up to 7000 meters</li> <li>Bio-fouling protection</li> </ul>
37-IMP	T, C, P*		
37-IMP-ODO	T, C, P*, DO		



## Other CTDs

HydroCAT-EP	T, C, P*, DO*, pH Fluorescence*/Turbidity*	RS-232 SDI-12	Measures conductivity, temperature, depth, dissolved oxygen, pH, turbidity, and chlorophyll. Ideally suited for extended deployments in remote, biologically rich environments, for depths to 350 m.
HydroCAT	T, C, P*, DO	RS-232 SDI-12	Slim form-factor (Compare to the 37-SMP-ODO)
39plus	T, P*	RS-232 USB (Internal Only)	High-accuracy, fast-sampling temperature sensor <ul style="list-style-type: none"> <li>Internal memory and batteries</li> <li>Real-time RS-232 output</li> <li>Internal USB interface</li> <li>Depths to 600m and 10,500m</li> </ul>
39plus-IM	T, P*	Inductive Modem Internal RS-232 and USB	
56	T	USB (Internal Only)	Low-cost, high-accuracy, fast-sampling temperature recorder with compact form factor.
WQM	T, C, P, DO Fluorescence/Turbidity	RS-232	Fully integrated multiparameter CTD with internal memory, real-time RS-232 output, analog/RS-232 sensor support, and bleach-injection anti-fouling system. Optical sensors are equipped with a wiper.
WQMx	T, C, P, DO Fluorescence/Backscatter /FDOM		



Sensor	Memory	Estimated Total Samples	Plastic Weight	Titanium Weight
16plusV2	64 Mb	140,000 - 355,000 samples (battery limited)	7.3 kg	13.7 kg
16plus-IM V2	64 Mb	110,000 - 290,000 samples (battery limited)	9.0 kg	17.0 kg
19plusV2	64 Mb	140,000 - 355,000 samples (battery limited)	7.3 kg	13.7 kg
37-SM	8 Mb	530,000 (memory limited)	2.7 kg	3.8 kg
37-SMP	8 Mb	425,000 (battery limited)	3.4 kg	3.7 kg
37-SMP-ODO	8 Mb	25,000 (battery limited)	3.4 kg	4.2 kg
37-SI	8 Mb	530,000 samples (memory limited - no batteries)	2.2 kg	2.9 kg
37-SIP	8 Mb	530,000 samples (memory limited - no batteries)	2.3 kg	3.0 kg
37-IM	8 Mb	530,000 samples (memory limited)	2.9 kg	4.0 kg
37-IMP	8 Mb	380,000 samples (battery limited)	3.6 kg	1.7 kg
37-IMP-ODO	8 Mb	24,000 samples (battery limited)	3.7 kg	4.4 kg
HydroCAT-EP	16 Mb	Varies - recommended 3 month maximum deployment	4.1 kg	N/A
HydroCAT	8 Mb	25,000 (battery limited)	3.0 kg	N/A
39plus	64 Mb	5.5 million samples (T only) 9.5 million samples (T and P)	0.6 kg	1.2 kg
39plus-IM	64 Mb	9.5 million samples (T and time only) 5.5 million samples (T, P, and time)	1.1 kg	1.6 kg
56	15.9 million samples	5.3 million samples at 0.5-sec intervals (31 days) 4.1 million samples at 15-sec intervals (717 days)	0.2 kg	N/A
WQM and WQMx	1 Gb	Varies	5.4 kg	N/A

## Moored CTD Size Comparison

