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MicroCAT Feature Comparisons

Sea-Bird manufactures a number of instruments within our MicroCAT family. All MicroCATs:

- Measure Conductivity and Temperature
- Can include an optional strain-gauge Pressure sensor
- Have 8 Megabyte memory

IDO MicroCATs include a membrane-type Dissolved Oxygen sensor. **ODO MicroCATs, introduced in 2012, include an Optical Dissolved Oxygen sensor.**

Other features vary:

Sea-Bird Model Number	Additional Included Sensors	Pump *	Power		Communication	Real-Time Data	Minimum Sampling Interval
			Internal	External			
37-SMP-ODO	Optical Dissolved Oxygen	√	√	√	RS-232, RS-485, or SDI-12	√	10 sec
37-SMP-IDO	Dissolved Oxygen (membrane-type)	√	√	√	RS-232 or RS-485	√	10 sec
37-SMP		√	√	√	RS-232, RS-485, or SDI-12	√	6 sec
37-SM			√	√	RS-232 or RS-485	√	6 sec
37-SIP-ODO (coming soon)	Optical Dissolved Oxygen	√		√	RS-232 or RS-485	√	1 sec
37-SIP-IDO	Dissolved Oxygen (membrane-type)	√		√	RS-232 or RS-485	√	1 sec
37-SIP		√		√	RS-232 or RS-485	√	1.0 – 1.5 sec **
37-SI				√	RS-232 or RS-485	√	1.0 – 1.5 sec **
37-IMP-ODO	Optical Dissolved Oxygen	√	√		Inductive modem	√ ***	10 sec
37-IMP-IDO	Dissolved Oxygen (membrane-type)	√	√		Inductive modem	√ ***	10 sec
37-IMP		√	√		Inductive modem	√ ***	6 sec
37-IM			√		Inductive modem	√ ***	6 sec

* Integral pump provides improved conductivity and dissolved oxygen (if applicable) response, and conductivity fouling protection.

** Minimum sampling interval 1.0 second without optional pressure sensor, 1.5 second with optional pressure sensor.

*** = Inductive Modem MicroCATs do not automatically transmit real-time data; controller must query for data.