# **New Products & Services Summary**



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## Additions to MicroCAT C-T (pressure optional) Family — SBE 37-IMP & 37-SMP

The MicroCAT family of instruments continues to grow, with two new versions that include an **integral, internal pump**. The pump comes on for 1/2 second each time the MicroCAT wakes up, providing:

- **Improved conductivity response** pump flushes the previously sampled water from the conductivity cell and brings a new water sample quickly into the cell.
- Improved anti-foul protection water does not freely flow through the conductivity cell between samples, allowing the anti-foul concentration inside the cell to build up.

The **SBE 37-IMP** combines the features of the SBE 37-IM (Inductive Modem) with the pump; the **SBE 37-SMP** combines the features of the SBE 37-SM (Serial interface & Memory) with the pump. Note that the SBE 37-IM and 37-SM continue to be available.





## Accurate Control of SBE 32 Carousel Water Sampler without a CTD

The 90208 Auto Fire Module (AFM) now provides compatibility with the **SBE 50 Digital Oceanographic Pressure Sensor**. The AFM allows the Carousel to operate autonomously on non-conducting cables. The AFM:

- Monitors pressure data transmitted by the SBE 50 or recorded by an SBE 19, 19 plus, or 25 CTD
- Fires bottles at pre-defined pressures on upcast, downcast, or whenever the Carousel is stationary for a specified period of time,
- Records bottle sequence and number, time, firing confirmation, and five scans of SBE 50 or CTD data in AFM memory for each bottle fired.

Using our updated SeatermAF software, setup of the AFM with the SBE 50 is straightforward. With the addition of the SBE 50 to the suite of instruments that can be used with the AFM, users who do not require CTD data for other scientific needs can now provide good control of the Carousel at a much lower cost.



# Sea-Bird Manufacturing AF24173 Anti-Foulant Devices

You may be aware of recent prohibitions on the use of TBTO in some marine anti-foulant applications. Because TBTO is essential to protect conductivity sensors from biofouling, in recognition of the scientific and social value of accurate salinity measurements, and because we were able to demonstrate that adverse environmental impacts are very small, the U.S. EPA has granted Sea-Bird a formal registration (EPA Registration No. 74489-1 and EPA Establishment No. 74489-WA-1). This registration permits our manufacture of AF24173 Anti-Foulant Devices containing this material and allows their use **only** for the protection of **Sea-Bird conductivity sensors**.

Therefore, we cannot sell an AF24173 Anti-Foulant Device for use on a third party sensor. As a result, we have stopped selling third party sensors configured for use with a pump for applications where anti-foulant would normally be expected to be used (moorings). For these applications, we now offer third party fluorometers, transmissometers, etc., that offer their own effective and legal bio-fouling resistance (for example, wipers).

Note: AF24173 Anti-Foulant Devices are larger than the cylinders we previously sold for the SBE 4, 16 (not 16*plus*), 19 (not 19*plus*), and 21. Because of the size difference, order the PN 50315 Anti-Foulant Device Mount Kit the first time you need new Anti-Foulant Devices on these instruments. Once you have the kit, just order the AF24173 Anti-Foulant Devices.

#### **Service**

#### Retrofit for Mounting of SBE 19plus SEACAT in Optional Cage

The old connection design of the SEACAT connector end cap to the lower cage bar did not provide adequate strength under dynamic loading (vibration, impact, etc.); the connection could fail under dynamic loading, **resulting in potential loss of the SEACAT**. Sea-Bird has redesigned the connection. All cages shipped after August 1 use the new design. Retrofit kits will be shipped in September to **all** customers who purchased an SBE 19*plus* cage with the old design; retrofit is simple and does not require removing the SEACAT from the cage. Reps should contact all known users of the SBE 19*plus* with cage.

#### Servicing SBE 13B and 23B Beckman Dissolved Oxygen (DO) Sensors

Sea-Bird stopped selling SBE 13 and 23 DO sensors in early 2001, but customers who bought these sensors in the past still look to us for replacement modules. For the *Beckman* version of these sensors, availability of replacement modules from their manufacturer is in doubt. As of February 2003, we have no replacement modules (PN 24015) left. **Customers needing a replacement module will not be able to obtain them from Sea-Bird.** 

We recommend that these customers buy a new SBE 43 instead, but realize that some budgets do not allow this. Those who work in shallow water (< 2000 meters) may find that conversion of a *Beckman* sensor to *YSI* (SBE 13B to 13Y or 23B to 23Y) is a useful compromise. The conversion price (including appropriate plenum for pumped systems) is equal to the 2002 price of the *Beckman* replacement module.

## **Software and Data Analysis**

#### Release of Complete SEASOFT for Waves - Win32 Suite

Last year Sea-Bird introduced SeatermW, the first module in our development of SEASOFT for Waves - Win32. In May we released the **complete** SEASOFT for Waves - Win32 program, which provides the following functions:

- Pre-deployment planning, communication with the SBE 26 to program for deployment, and uploading of raw data
- Separation and conversion of raw data into wave and tide files
- Removal of barometric pressure from tide data
- Calculation of wave statistics and surface wave time series and/or wave burst auto-spectrum statistics
- Plotting of data

This Windows software (Win 95/98/NT/2000/XP) provides much more flexibility and ease-in-use than the DOS software, and includes extensive Help files. Future enhancements will be added to the Windows package only, but the DOS software will still be shipped and will remain available on our website for downloading.

#### Updates to Real-Time Data Acquisition and Data Processing Software in SEASOFT-Win32

Enhancements to SEASAVE and SBE Data Processing include:

- Compatibility with the SBE 45 MicroTSG (with or without optional PN 90402 SBE 45 Power, Navigation, and Remote Temperature Interface Box) and the SBE 49 FastCAT CTD.
- Support for a number of newer third party sensors used with our instruments, including Seapoint Rhodamine, Sequoia LISST-25 Suspended Sediment, WETStar CDOM, Chelsea UV Aquatracka fluorometer, WetLabs ECO-FL fluorometer, and Pro-Oceanus Gas Tension Device.
- Support for an ever growing number of third party sensors commonly deployed in a redundant configuration (i.e., two of the same sensor integrating with the Sea-Bird CTD).

### **Website Tips**

Check out the links from our Sales Information page (www.seabird.com/sales\_info/quotetips.htm) to the following:

- Cable listing, which provides part numbers and links to .pdf drawings for the most commonly used cables
- Mount Kit listing, which provides part numbers and links to .pdf drawings for the most commonly used mount kits
  for mounting Sea-Bird sensors and third party sensors on Sea-Bird instruments.



1808 136th Place NE, Bellevue, Washington 98005 USA Website: http://www.seabird.com

E-mail: seabird@seabird.com Telephone: (425) 643-9866 Fax: (425) 643-9954