

## DIVE COMPUTERS



**APPLICATION:** [Wet-diving] Nitrox diving computers are used to display and record standard dive information such as depth, gas pressure, bottom time, gas time remaining, breathing rate, maximum depth, and temperature. The computer continuously calculates nitrogen gas absorption into various body tissues during multi-level dives to provide the diver with safe, extended no-decompression limits. Some computers use associated software and PC to provide a detailed dive profile that can be extracted in graphical form.

**DESCRIPTION:** Several types of dive computers are available, and use depends on types of gas and number of gas switches used during the dive. The Cochran Undersea Technology Nemesis Nitrox II dive computer (left) consists of a wrist unit and tank-sending unit. The “brains” of the computer are in the tank unit, which connects into the high-pressure port of a first stage scuba regulator. The information processed in the tank unit is sent to the wrist unit via a coded signal unique to the matched pair. All information is displayed on the LCD screen of the wrist unit. A computer interface is used to connect the tank unit to a PC where the user can set recording parameters or obtain dive profile

information. Other computers are wrist or console mount type and do not provide tank pressure readings. The NiTek 3 (center) can record gas switches during the dive.