CTD, FLUOROMETER, PAR

APPLICATION: The CTD, with additional external sensors, is used to collect the physical oceanographic parameters of the water column in a marine environment. Data from the sensors can be stored internally or viewed in real time.

DESCRIPTION: The Seacat 19 CTD profiler records electrical conductivity, temperature and depth. Two additional external sensors can be attached to the CTD to record fluorometry and photosynthetically available radiation. Computer driven software is available to derive a variety of additional parameters including salinity, pressure, density, etc. The software also allows viewing of the data in table or graph form, storage of data to hard or floppy disk drive, editing of the data, and reset of the 256K internal memory storage. The CTD is usually deployed in a vertical "cast", mounted on a submersible or remotely operated vehicle, or moored to the bottom. Data samples can be taken as fast as one each half second. Real time data display requires a minimum of two electrical conductors. The CTD is depth rated to 600 meters, flourometer to 500 meters, and PAR light sensor to 1000 meters.