

AUTOMATIC SEAWATER SAMPLER

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Sampling from different horizons of the water column is necessary when solving hydrological problems down the coastal shallow seawater areas. Today, there is no compact and low-budget technical solution that allows getting a large number of samples on small research vessels or boats. The paper describes the results of the development of an automatic control unit for a Niskin-type water sampler using a pressure sensor, which will improve the work efficiency at oceanographic stations. The obtained device is low-cost yet highly functional and easy to assemble due to using of widely available electronic modules. The device can be used by a wide range of organizations related to the study of water areas: scientific institutes; fisheries and mariculturists; supervisory authorities that control the quality of coastal waters.

Keywords: bathometer, hydrology, oceanography, water profiler, submersible sounding

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