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摘要：DLW一体化水质在线监测系统将采样预处理单元、在线监测分析单元、控制单元进行有机集成，实现水质的连续自动监测和监控，使用户及时掌握水体水质状况、监督排放达标情况。同时，该水质在线监测系统的采样预处理单元根据分析仪器需要集成多种水质采样预处理系统，能够同时为多种水质在线监测分析仪器提供满足水质水量要求的水样。对水质在线监测系统集成，提高水样的代表性，大大降低仪器购置成本和运行维护费用，方便用户管理仪器和监测数据。

关键词：系统集成, 水质在线监测, 数据采集与传输控制, 采样预处理

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DLW series integrated online water quality monitoring system and its application

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Abstract: DLW series online water quality monitoring system was the integration of water sampling and pretreatment part, water quality monitoring part and controlling part. By using this system, users could easily get the timely and reliable information of water quality. Compared with traditional online water quality monitoring system, this integrated system could provide more representative water sample with lower acquisition and maintenance costs. In addition, it has already been proved that the water sampling and pretreatment part of this system could simultaneously provide suitable pretreated water sample for several import precision instruments as COD, ammonia, and phosphate online analyzers.

Key words: Sample pretreatment, Online water quality monitoring system, Integration, Data acquisition and transmission control

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