

Portable Water Quality Monitoring System

This fully portable water quality monitoring system is designed to measure varying parameters of influent and effluent material. Although the most common applications are pH and turbidity, it can be designed to cover a wide array of constituents by changing the input sensors. The PWQMS has the ability to monitor, data, log, and simultaneously inject chemicals or polymer as needed to adjust and control conditions in the water. The system uses two piped inputs enclosed within a portable, weather-proof container, which also houses monitoring equipment, electronics, treatment pumps, polymer storage, and flow meters. Support equipment is also enclosed, which includes a fold-down desk, heater, lights, and status board that indicates system operation status. The first input pipe monitors the influence and can determine treatment strategies, protect valuable filtration equipment, record totalized flow, and log data. The second input pipe monitors the downstream flow from the initial input after pre-treatment and filtration has occurred. The data is downloadable to spreadsheet format either by RS-232 connection or through a PDA infrared port. Flows not meeting the discharge requirements are recirculated back to the source, and as an alternative, to other treatment scenarios.

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