

Intelligent System Used for Measuring Parameters for Water Supply and Discharges in Order to Obtain Integrated Water Management

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Abstract

The efficient water resources management represents a prime issue both on the national as well as in the international agenda. In order to do this, the entities that activate in the field need efficient tools and methods for real time measuring of the physical and chemical parameters and disposed and recovered water quantities. Debt, level and parameter measuring for the water in rivers, streams, channels and disposal pipes represents a critical issue, very hard to solve with the aid of current means. Public and private companies that are responsible for water disposal have limited budgets and can not support the implementation of water debits and parameters with available measuring means. By using online qualitative and quantitative information, a proper action can be taken in time in order to prevent and limit both ecological accident and logging effects. The efficient management of the water resources is conditioned by the development of an regional integrated equipment and qualitative and quantitative water characterization method network accessible through Internet and helping to the implementation of the Directive no. 90/313/EC of the Council on the free access to environmental information and the privind accesul liber la 137/1995 Law on the preservation of the environment, modified and re-published 2000 and the completion of integrated water management. The entry data, as well as the outcomes will be available for use in the Environmental Information and Observation European Network (EIONET) reports and will stand at the basis of the environmental strategies implemented at European level. Measuring water debits and other important parameters and granting access to organizations acting in this field to this data constitutes a premise for the efficient natural resources management activities or for the hazards prevention and prognosis actions (especially water pollution and floods).

References:

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