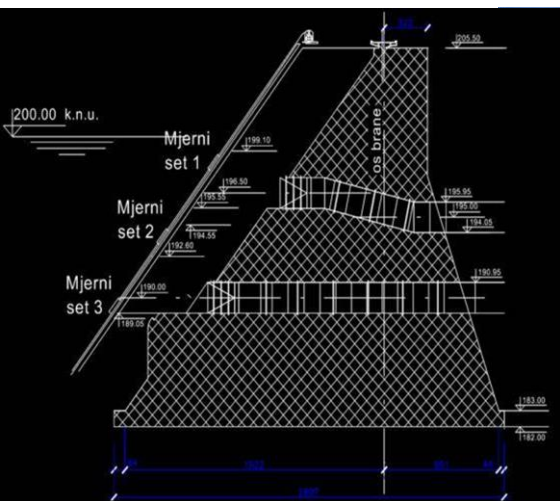


**ELCOM d.o.o.** is specialized in Totally Integrated Automation (TIA), containing electrical engineering and software development for the automation of production processes and machines, production of MCC and control cabinets as well as onsite installation, commissioning and acceptance testing (FAT, SAT, SIT)



## Automation system for measuring of water level and water quality

Hydro Power Plant Modrac, BIH



## Certificates

We have proven our competence as Siemens Solution Partner Automation in the following areas:

- Automation System SIMATIC
- Human Machine Interface SIMATIC HMI
- Process Control System PCS7

Main task of the automation system for measuring of level and water quality in the dam accumulation of the HPP Modrac is to ensure continuous measurement by the software and the correct informations all the time about the level of the accumulated water and the parameters which describe the quality of the water:

- Temperature,
- Conductivity,
- Content of oxygen,
- pH value,
- Value of Redox potential.
- Fuzziness

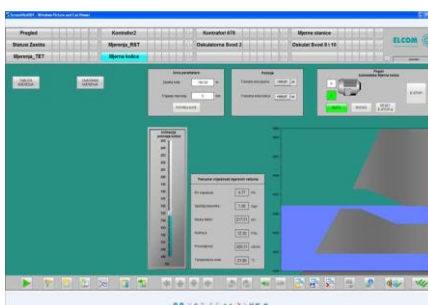
### Solution:

The point where the installation of the measuring wheel with onboard measuring sensors will be arch No. 2 of the dam Modrac. System contains three functional levels:

- DataLogger memory controller unit where all the measurements are connected and which has possibility of communication to existing control system of control and monitoring on the dam Modrac.
- Marshalling device with wheels on which all sensors are placed. Device is automatically positioned by the process controller and the position is defined by the software determined high point.
- Existing system of control and supervision on HPP Modrac is upgraded with the function for controlling of the wheels with collecting,

and archiving of the data from the DataLogger. Real time overview of measured data is secured over the Profibus communication.

Wheels are collecting data three times a day, every 8 hours on three different high levels. Complete process is automated, measured data is collected and archived without any need of action from the operator.



## Information about the Siemens Solution Partner Program

Under the Siemens Solution Partner Automation and Power Distribution Program, we join forces with our Solution Partner. By merging our product and systems expertise with the application and industry knowledge of our partners, we have created a common basis for the fast, smooth and highly efficient implementation of your requirement – customized solutions for your competitive advantage.

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