

Easy actuator commissioning using Profinet

Wehebach Dam drinking water treatment plant, Germany

AR18002 | AUMA APPLICATION REPORT



WATER

APPLICATION

Drinking water treatment

AUMA SOLUTION

- > SA actuators with intelligent AC 01.2 actuator controls
- > Profinet

CUSTOMER BENEFITS

- > Time savings during commissioning

AUMA actuators with Profinet interface excelled with fast and easy commissioning at Wehebach Dam DWTP.

As part of a modernization scheme at the Wehebach Dam drinking water treatment plant (DWTP), Germany, it was decided to use Profinet for the first time to control new electric actuators on the second filtration stage. The DWTP is part of the WAG Nordeifel mbH and supplies approximately 9 million cubic meters of drinking water per year for the Greater Aachen region. The retrofit project was realised by service provider Enwor.

AUMA ACTUATORS WITH PROFINET INTERFACE

42 AUMA SA actuators with AC 01.2 actuator controls and Profinet interface were installed in the second filtration stage. Six actuators are installed on each of the seven filtration basins of the second filtration stage. They respectively control inflow, outflow, purge air inflow, rinse water inflow and outflow, and filter base vent.

ADVANTAGES DURING COMMISSIONING

Before the actual installation, Enwor staff took part in a training session at AUMA Service Center Cologne on installing and commissioning Profinet-controlled actuators.

During installation, the six actuators of each filtration basin were linked via point-to-point spur lines with a switch that handles communication with the higher-level host system. Enwor staff used the standardised GSDML device description provided by AUMA for actuator commissioning, as well as the engineering software from the DCS manufacturer.

Actuator configuration via Profinet proved to be straightforward. The first step was to assign each actuator a device name and an IP address to enable unambiguous identification within the Profinet system. The parameters and function blocks required for operation were configured in a second step. The configuration only had to be created once, for the first filter. It could afterwards be transferred to the other five filters.

“Commissioning the AUMA actuators via Profinet was straightforward and very smooth. We only had to create the configuration for the first filter, and we could then transfer it to all the other ones.”

Thomas Hackenbroich
Head of Control Engineering,
Enwor

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