

Modular design increases safety and convenience for underground installation

Łyna wastewater treatment plant, Olsztyn, Poland

AR19001 | AUMA APPLICATION REPORT



AUMA SAR 07.6 actuators are installed underground at Łyna wastewater treatment plant. AUMA's modular design allows their AC 01.2 actuator controls to be mounted accessibly at ground level.

Łyna wastewater treatment plant in Olsztyn, northern Poland, needed new actuators to handle the high-precision dosing of additives which support the growth of microorganisms and help to remove phosphorus from the wastewater.

The actuators are sited below ground level. As working underground brings special safety needs, including qualified personnel and gas tests to ensure sufficient oxygen and rule out explosive atmospheres, the plant operator was looking for a solution that allows convenient actuator operation from ground level.

MODULAR DESIGN MAKES ALL THE DIFFERENCE

The Łyna plant already had around 200 AUMA actuators. AUMA won this order on the basis of the actuators' performance and especially the ease of remote mounting for the actuator controls.

Six new AUMA SAR 07.6 electric actuators for modulating duty were thus installed at the Łyna plant, with their AC 01.2 actuator controls mounted above ground for both safety and convenience. Such an arrangement is easy to manage thanks to the modular design of AUMA actuators, which allows the actuator controls to be mounted up to 100 m from the actual actuator with its motor and gearbox.

Moving the actuator controls up to ground level, in combination with non-intrusive actuator versions, reduces underground work to a minimum, thus helping to save time and cost.

The chief engineer at Łyna WWTP explains that the split-level installation also provides diagnostic and local control from a more comfortable position. The graphical interface and all operational, datalogging and diagnostics features provided by the intelligent AC 01.2 actuator controls are easily accessible.

The actuators use Profibus DP-V1 to communicate with the plant's main control system. Local AUMA Service took care of installation and commissioning on site.



WATER

APPLICATION

Wastewater treatment

AUMA SOLUTION

- > SAR actuators with intelligent AC 01.2 actuator controls
- > Profibus DP
- > Separately mounted actuator controls
- > On-site service

CUSTOMER BENEFITS

- > Cost and time savings thanks to convenient actuator operation from ground level

Project responsibility:
AUMA Polska, Poland

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