

Hydrogen sulphide concentration detection and monitoring system at MONDI Świecie

As part of the implementation of the hydrogen sulfide concentration detection and monitoring system project at the mechanical sewage plant at MONDI SWIECIE S.A., a system with digital communication already known at this plant from previous implementations was implemented.

SmArtGas 4 series detectors with electrochemical sensors detecting hydrogen sulfide concentrations in the range of 50 ppm were used.

Due to the difficult measurement conditions, the detectors used heads equipped with special membranes to increase the IP of the detectors, ensuring their waterproofness. Due to the structure of the facility, a distributed GDS system control panel with a remote operator panel was used. The control panel is located in the facility on level 0, while the HMI panel providing interface with the operator is located in the control room.

Detection is implemented in four different areas of the treatment plant with dedicated optical and acoustic alarms responsible for warning of toxic hydrogen sulfide concentrations only in specific zones.