

Detection and monitoring system for styrene concentration at Polplast in Myślenice

The aim of the project is to minimize the release of toxic substances into the working environment during the production process.

As part of the implemented task, a special chamber was created in the zone of the highest styrene release, along with supply and exhaust ventilation. In the closed chamber we monitor the explosive concentration of styrene vapor at the LEL [Lower Explosive Limit].

The production hall uses SmArtGas 4 series detectors with PID sensors that detect the concentration of Volatile Organic Compounds in the toxicity [ppm] range.

The central control panel of the detection system provides visualization of measurement points on the operator panel and recording of monitored concentrations in the internal memory of the HMI and on an external USB drive.

The system's operation signaling provides not only warning of harmful styrene vapors, but also informs about the correct operation of the system within the concept of "GAS OK"