

Carbon monoxide detection and monitoring system at Tauron Ciepło in Katowice

Within the scope of the modernization of the two CO detection systems, one joint detection system was used for the carburizing hall and coal bunkers.

The central control panel of the detection system has a remote operator panel located in the control room, thus providing constant supervision of the plant services over the condition of the facility. The operator panel provides visualization of the monitored area, recording of measured values and provides a GATEWAY for possible integration with the plant DCS system.

SmArtGas 4 series detectors with electrochemical sensors detecting carbon monoxide concentrations in the 200 ppm range were used. The detectors were equipped with FLED illumination realizing optical signaling informing about the state of the atmosphere in the monitored areas.

In the carburizing hall, optical and acoustic signaling realizing the "GAS OK" convention was used, as well as basic signaling before entering the monitored area.

The central control unit of the detection system controls the operation of ventilation systems in the carburizing gallery area.