

Monitoring VOC Contamination in the Exhaust Gas from an Industrial WTP

APPLICATION

Monitoring exhaust gas from an industrial water treatment plant. The exhaust gas is specially treated, and the effectiveness of the treatment process is controlled by the VOC measurement.

CUSTOMER

Refinery for coal tar products, Germany

PROBLEM

The exhaust gas is treated with activated carbon filters. The contaminated carbon filters are reconditioned by desorbing contaminants using a stream of hot air. This air is now contaminated with VOCs which in turn is exposed to UV light. The UV light oxidizes the organic compounds removing them from the gas stream. If the VOC concentration in the gas falls below a certain value the UV process can be stopped to save energy.

PRODUCT

MS1200-01-SYS – Touch version, 4-20 mA without sampling tank. The VOC gas is taken directly from the line which is one meter away.

WHY MULTISENSOR?

The customer needed a system to monitor VOC

Gases in a reliable way in a difficult environment and with the measurement not affected by the humidity.

INSTALLATION FACTS

The instrument is installed in a cabinet to provide additional protection from the potentially harsh environment. A sample of the exhaust gas is fed into the MS1200 directly from the sample point.

The VOC content of the gas is analyzed every 15 minutes and, if a set limit is not exceeded, the instrument will stop the UV oxidation process, saving energy.



A picture of the unit installed in the cabinet for further weather protection

*Learn more on the new VOC Gas Analyzer
by clicking on the image*

