

MONITORING VOC CONTAMINATION IN THE EXHAUST GAS FROM AN INDUSTRIAL WATER TREATMENT PLANT

SECTOR

Petro-chemical, Refinery

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

INSTALLATION DATE

2019

PROBLEM

The exhaust gas is treated by activated carbon filters. Contaminated carbon filters are desorbed by a hot air stream and the air, now contaminated with VOC, is exposed to UV light which oxidises the VOCs. If the VOC concentration goes below a specific 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 metre away.

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 analysed



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

every 15 minutes and, if a set limit is not exceeded, the instrument will stop the UV oxidation process, saving energy.

For more information please visit www.multisensor.co.uk