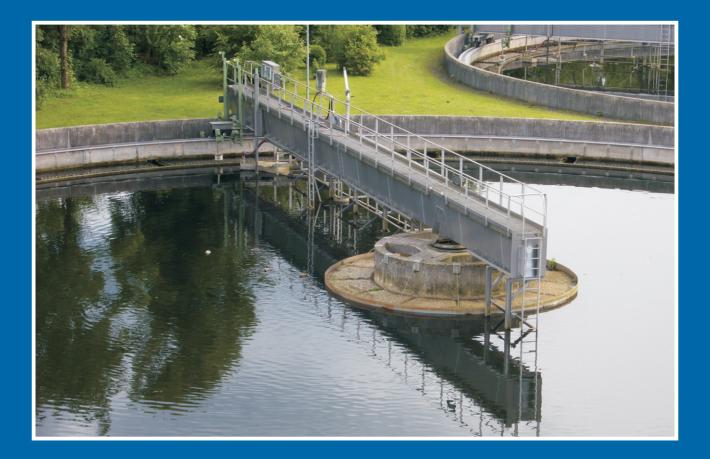
EXPERTS IN ANALYSIS



onlineNH3

Device for online monitoring of $\mathsf{NH}_{\scriptscriptstyle 3}$ in gases

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online **NH3**



Product description

The onlineNH3 is used for a quantitative determination of NH_3 in livestock buildings, digestion towers and biogas plants. The sampling can be carried out at one, two or more selected measuring points. This measurement serves as the basis for water treatment and the control of maximum threshold values.

The measurement of NH_3 works with selective, electrochemical sensors. The mobile microcontroller unit includes a data acquisition and data transmission tool, digital and analogue input connections for various measurands as well as digital and analogue alarm output connections (4 - 20 mA) for industrial process monitoring and control.

The online NH3 enables an increase of efficiency regarding treatment methods through a quantitative measurement of the NH_3 -value in front and after filter plants and through a measurement of the individual process steps of a biogas plant, respectively. Hence, maintenance and cleaning cycles can be accurately identified and optimized.

Applications

- Livestock facility
- Control of digestion towers
- Slurry storage



Biogas plant

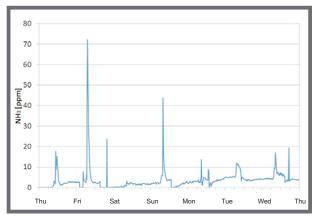
- Biogas plant
- Elimination of smell nuisance
- Elimination of hazard sources

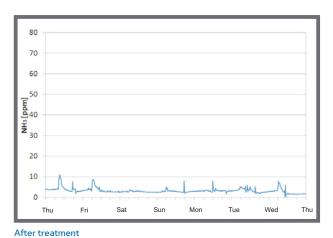


Animal husbandry

Details

- Online determination of the NH₃-concentration at the source (e. g. livestock building) and at the drain (e. g. exhaust air chimney located after a biofilter)
- Very high sensitivity (below 1 ppm) with highest precision
- High selective electrochemical sensors
- Integrated rinsing steps to ensure a current sample for analysis at all times
- Automatic zero point compensation
- Arbitrary measuring cycles/amount of measurements per day
- Data logger for several months
- Output of the NH₃-value: 4...20 mA-signal
- Alarms as acoustic or electrical signal threshold value can be selected by authorized service staff





Before treatment

Advantages

- Data acquisition directly in the data logger of the analyzer for several months
- Long operating life of the sensor through intermittent gas path control
- Low maintenance effort due to automatic zero point compensation
- Optional combination with other sensors (e. g. hydrogen sulfide or hydrocarbon/ odor sensors)
- 4...20 mA output signal to transmit the NH₃-signal into customers' control system
- Active gas sampling through a transfer line of up to 50 m length and from a depth of down to 10 m
- Integrated rinsing steps to ensure a current sample for analysis at all times
- Optional extension for multiple measuring points
- Selective electrochemical sensors
- Data transmission via GSM

Specifications

Power supply: Power input: Measuring range: Typical duration: Output signal: Protection type: Dimensions: Weight: 230 V, 50 Hz 40 W max., 5 W on standby mode 0.1 ... 500 ppm 24 hours online measurement 4 ... 20 mA analogous and digital output, respectively IP65 200 x 250 x 122 mm 2 kg

We are here for you



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