

BlueMon On-line Analyser

The **BlueMon** analyser is a powerful measurement device for wet-chemical on-line analysis methods. The analyser allows for a fully automated and self-calibrating operation of up to six sample lines. Thereby it enables the on-line monitoring of parameters that previously required time-consuming and costly manual lab work. The BlueMon Analyser also features extensive control functions, as well as the possibility for remote access and control via internet and mobile networks.

Application Areas



Drinking Water

- Quality control
- Alarm systems



Wastewater

- Effluent monitoring
- Trend analysis



Process Measurement & Control Technology

- Process monitoring in industrial facilities
- Control of process water treatment
- Process optimization



Environmental Monitoring

- River water
- Surface water



Parameters

- Ammonium
- Chlorine
- Orthophosphate
- Total phosphorus (TP)
- Total nitrogen (TN)
- Silica

* Further parameters on request

Main Functions & Features



Monitoring Function



Control Function (PLC)



Automated Calibration



Up to 6 Measuring Channels



Intelligent Event Handling



Cloud Data Service



Configurable Measurement Procedure



Automated Cleaning

Technical data

Power supply 230 VAC (90 - 260 V)

Power consumption (typical) 42 W

Dimensions (wxhxd)

Art. no. 488 1xxx 45 x 48 x 26 cm

Art. no. 488 2xxx 60 x 70 x 30 cm

IP protection class IP 54 / IP 65 [optional]

Number of measuring channels 2 / up to 6 [optional]

Sample pressure 0 bar (max. 0.05 bar overpressure)

Sample temperature +10 to +40 °C

Ambient temperature +15 to +35 °C

Interfaces

1x RS-232, RS-485, var. protocols e.g. Modbus

1x CAN bus for connection of additional modules, sensors & actuators

1x Ethernet [TCP/IP], Modbus [TCP/IP]

Profibus [optional]

GPRS / UMTS / LTE modem [optional]

Inputs

1x Current input 4-20 mA

4x Digital-In (static) potential-free contacts

1x Connection for pH glass electrode

1x Connection for temperature (PT1000) 0-80 °C

1x Connection for Redox/ORP electrode

1x Connection for leakage sensor

Outputs

2x Current output 4-20 mA

4x Digital-Out

6x Relay with a switching capacity of 24 V AC/DC; 0,5 A

Silica

Measuring principle photometric

Measuring range 0.0 - 0.02 / 2.0 / 100 mg/l

Art. no. 488 1FS0

Orthophosphate

Measuring principle photometric

Measuring range 0.0 - 0.5 / 2.0 / 6.0 / 25 / 50 mg/l

Art. no. 488 1FP0

Total nitrogen

Measuring principle photometric

Measuring range 0.0 - 0.5 / 10 mg/l

Art. no. 488 2FN1

Ammonium

Measuring principle photometric

Measuring range 0.0 - 0.5 / 4.0 / 8.0 / 20 / 100 mg/l

Art. no. 488 1FA0

Orthophosphate & total phosphorus

Measuring principle photometric

Measuring range 0.0 - 0.1 / 0.5 / 6.0 / 100 mg/l

Art. no. 488 2FP1

Chlorine

Measuring principle photometric

Measuring range

free, combined & residual chlorine 0.0 - 0.2 / 1.0 / 3.0 mg/l

Art. no. 488 1FC0

*Further parameters on request