

# 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
- Orthophosphate
- Total phosphorus (TP)
- Total nitrogen (TN)
- Total nitrogen & total phosphorus (TN/TP)

\* Further parameters on request

## Main Functions



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
<b>Dimensions (wxhxd)</b>	
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

## 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

## Total nitrogen & total phosphorus

Measuring principle	photometric
Measuring ranges	0.0 - 2.0 TN 0.0 - 1.0 TP mg/l
	0.0 - 5.0 TN 0.0 - 2.0 TP mg/l
	0.0 - 10 TN 0.0 - 5.0 TP mg/l
	0.0 - 50 TN 0.0 - 10 TP mg/l
Art. no.	488 2TPN

\*Further parameters on request