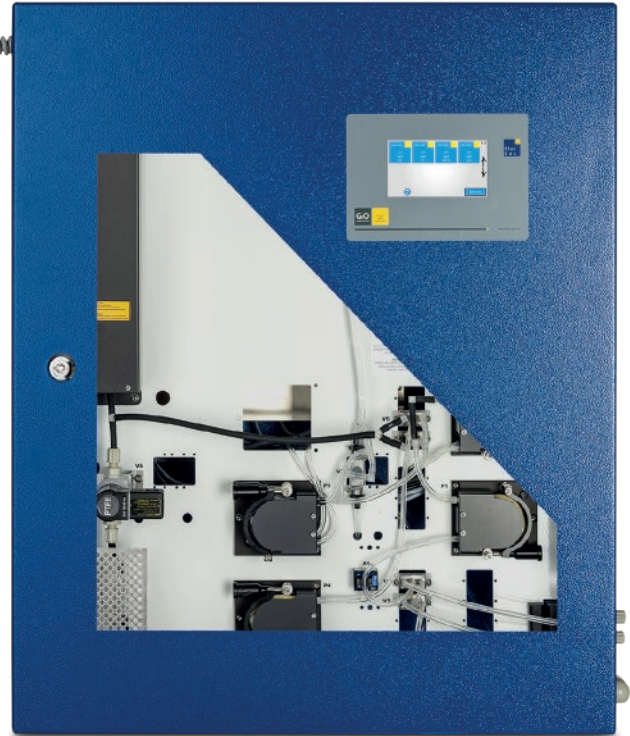


BlueMon Nutrient Analyser

The **BlueMon Nutrient Analyser** offers a combined solution for the on-line measurement of TN, TP, NH₄ & NO_x all with one single device.

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 four sample lines. 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



Wastewater

- Effluent monitoring
- Trend analysis



Environmental Monitoring

- River water
- Surface water



Aquacultures

- Hatcheries
- Onshore & offshore fish farms

One Analyser — 4 Parameters

- Total nitrogen (TN)
- Total phosphorus (TP)
- Ammonium (NH₄-N)
- Nitrogen dioxide (NO_x)

Main Functions



Monitoring Function



Control Function (PLC)



Automated Calibration



Up to 4 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) | 60 x 70 x 30 cm |
| IP protection class | IP 54 / IP 65 [optional] |
| Number of measuring channels | 2 / up to 4 [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

Total nitrogen

| | |
|---------------------|--------------------|
| Measuring principle | spectrophotometric |
| Measuring range* | 0.0 - 5.0 mg/l |
| Measuring accuracy | ± 5 % |

Total phosphorus

| | |
|---------------------|--------------------|
| Measuring principle | spectrophotometric |
| Measuring range* | 0.0 - 2.0 mg/l |
| Measuring accuracy | ± 3 % |

Ammonium

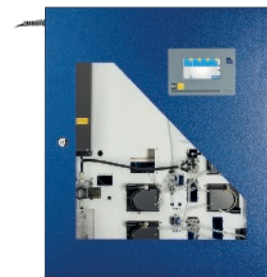
| | |
|---------------------|----------------|
| Measuring principle | photometric |
| Measuring range* | 0.0 - 1.0 mg/l |
| Measuring accuracy | ± 3 % |

Nitrogen oxide

| | |
|---------------------|--------------------|
| Measuring principle | spectrophotometric |
| Measuring range* | 0.0 - 5.0 mg/l |
| Measuring accuracy | ± 5 % |

Product configuration

The BlueMon Nutrient Analyser is designed to measure every parameter with a measurement interval of 60 minutes.



BlueMon Nutrient Analyser

Art. no. 488 2PNA

*Further measuring ranges on request