

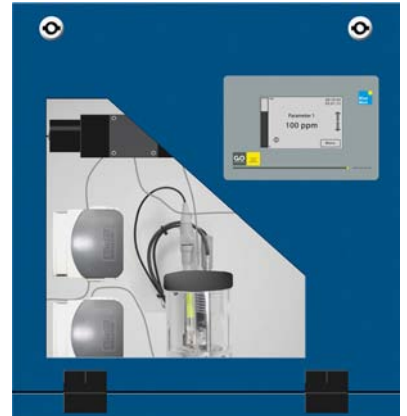
BlueMon [Colorimeter]

Article number 488 2FNO

The automatic laboratory!

Features

- Factory calibrated
- Simple maintenance
- Up to 6 sample lines
- Modular expandable
- Intelligent event-handling [SMS and E-mail]
- Ready for network based data processing and control technology [BlueGate]



BlueMon [Colorimeter]

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Method

Parameter	Nitrate
Measurement principle	Colorimetry at 525 nm; reduction and NEDD
Measurement accuracy	< 3 %
Measurement resolution	0.001 - 0.01 mg/l
Minimal measurement sequence duration	10 min
Calibration	Auto 2 point calibration
Consumables provision	4 month at 30 min interval
Samples with particle size > 100 microns need filtration.	

Sensors

1x Photometer [LED adjustable]
1x Connector for pH glass electrode
1x Connector for temperature (PT1000) 0 - 80 °C
1x Connector ORP (Redox) electrode [optional pH]
1x Current input 4 - 20 mA
6x Digital In
1x Connector for leakage sensor
6x Connector liquid detector for sample reagent
Expandable [CAN-bus] [Modbus]

Actuators

1x Digester with temperature, heating and UV monitoring	
1x Stirrer control	
2x Motor control forward/backward and pulse counter	
5x Motor control - (direction selectable)	
12x Relays for valves, limit values and control outputs	24 VDC
Expandable [CAN-bus] [Modbus]	

Measurement Ranges

0.0 - 1.0	mg/l	NO ₃
0.0 - 10.0	mg/l	NO ₃
0.0 - 20.0	mg/l	NO ₃

Sample lines

2x Sample lines standard
up to 6 sample lines optional

Technical Details

Power supply	24 VDC (power supply included)
Power supply unit	Input voltage 85 - 264 VAC
Power consumption typical	42 W
Protection class	IP 54 (optional IP 65)
Dimensions (WxLxH)	60 x 70 x 31 cm
Weight	approx. 45 kg
Colour	RAL 5010 (blue)
Sample pressure	0 bar (max 0.05 bar overpressure)
Sample flow rate	2 - 10 l/h, no suspended solids
Sample temperature	10 - 40 °C
Ambient temperature	15 - 35 °C
Operating system	embedded Linux™

Interfaces

1x Ethernet [Modbus TCP]	
1x RS-232 or RS-485 (Modbus)	
1x CAN-bus (for connecting further modules, sensors & actuators)	
2x Current output	4 - 20 mA

subject to technical changes

Product sheet DOC 488 2FNO-E-1-PB