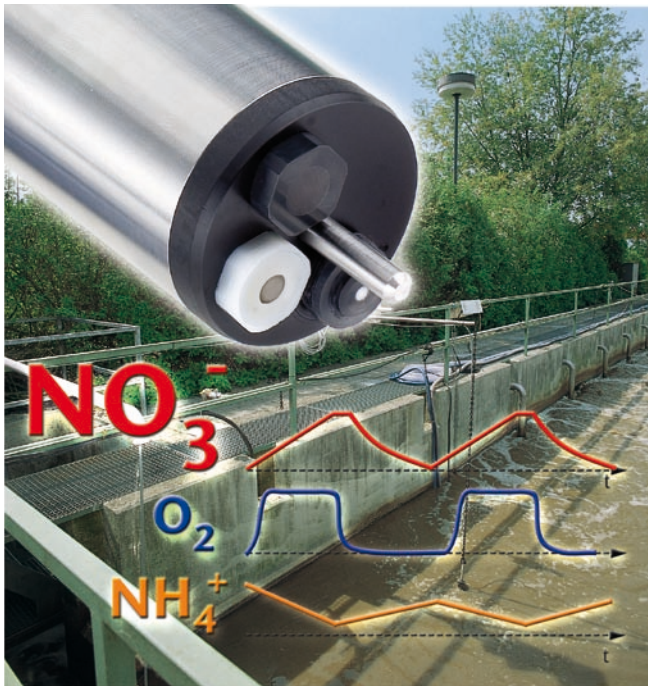
NitraLyt®*Plus*

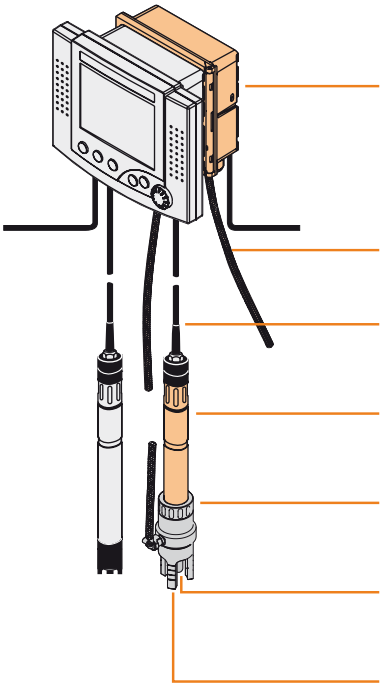
- In-situ nitrate sensor with optional chloride compensation
- Economic, cost-effective
- Calibration-free, long term stable
- Short response time



Nitrogen Elimination Process – monitored, optimized, cost effective

The optimization of nitrification/denitrification during wastewater treatment is simplified even further by the new NitraLyt®*Plus* system:

- Nitrate is also directly measurable during the process in addition to oxygen and ammonium.
- Measured values are promptly available and can be used directly to control the process.
- Low investment and maintenance costs (automatic compressed air cleaning system).



IQ Sensor Net module **MIQ/CHV PLUS**

External compressed air supply 3-7 bar

Sensor connection cable **SACIQ-7,0**

Sensor assembly **NitraLyt®*Plus* 700 IQ**

Cleaning head **CH**

Reference electrode: VARiON®*Plus* Ref
VARiON®*Plus* NO_3

VARiON®*Plus* Cl
or VARiON®*Plus* Ref and

NEW VARiON®*Plus* NO_3-HS

recommended components per NitraLyt®Plus measuring place: orange

IQ-LabLink

With the initial installation of NitraLyt®*Plus* the dependency of the used electrode reference values for nitrate and chloride is determined by a photometric system and can be adapted with NitraLyt®*Plus*.

The measuring data is required for guaranteeing a precise matrix adaption.

For enhancing the data transfer between the laboratory spectrophotometers photoLab® 6100 / 6600 and NitraLyt®*Plus*, a USB memory stick in combination with the IQ-LabLink function can be used for the MIQ/TC 2020 XT to automatically read the data and store it on NitraLyt®*Plus*.

- Safe, comfortable and fast data transfer
- Automatic plausibility check of data

Technical Data NitraLyt®*Plus*	
Appropriate Electrodes	Reference electrode VARiON®*Plus* Ref, Measuring electrode VARiON®*Plus* NO_3, Compensation electrode VARiON®*Plus* Cl, VARiON®*Plus* NO_3-HS
Measuring Ranges/ Resolution	NO_3-N: 1 ... 1000 mg/l / 1 mg/l; 0.1 ... 100.0 mg/l / 0.1 mg/l
	NO_3^-: 5 ... 4500 mg/l / 5 mg/l; 0.5 ... 450.0 mg/l / 0.5 mg/l
	Cl^-: 1 ...1000 mg/l / 1 mg/l
Temp. Measurement and Compensation	Integrated NTC thermistor Range: 32 ... 104 °F (0 °C ... +40 °C), Accuracy ±0.5 K, resolution 0.1 K, t_{95} < 20 s
Calibration Procedures	Matrix adjustment against any reference value, 2-point-calibration possible with multiple standard solution
Ambient Conditions	Operating temperature: 32 °F ... 104 °F (0 °C ... + 40 °C), storing temperature: 32 °F ... 104 °F (0 °C ... + 40 °C)
pH Range	pH 4 ... pH 11
Measuring Accuracy in laboratory standard solutions	±5% of measured value ± 0.2 mg/l in standard solutions
Working Life (typically)	All electrodes: 18 months (in typical application - sewage plants)
Mechanical	Sensor body: V4A Stainless Steel 1.4571 Protective cap: POM, Temp. sensor: V4A Stainless Steel 1.4571 Protection rating: IP 68 (0.2 bar, with installed electrodes) Electrode connector: POM
Max. Pressure	Maximum 0.2 bar (incl. SACIQ sensor connection cable; with installed electrodes)
Power Consumption	0.2 Watt
Dimensions	15.43 x 1.57 in. (392 x 40 mm, length x diameter), incl. sensor connection cable SACIQ
Weight	Approx. 1.48 lb (670 g, without electrode, without sensor connection cable)
Guaranty	NitraLyt®*Plus* 700 IQ: 2 years for defects of quality

Ordering Information

NitraLyt®*Plus*-System		Order No.
NitraLyt®*Plus* 700 IQ	Robust digital armature for ionselective electrodes (VARiON®*Plus* Ref/VARiON®*Plus* NO_3/VARiON®*Plus* Cl/ VARiON®*Plus* NO_3-HS; not included in the delivery scope)	107 080
VARiON®*Plus* Ref	Reference electrode for VARiON®*Plus* 700 IQ/AmmoLyt®*Plus* 700 IQ/NitraLyt®*Plus* 700 IQ	107 042
VARiON®*Plus* NO_3	Nitrate electrode for measuring nitrate with dynamic Cl compensation	107 045
VARiON®*Plus* NO_3-HS	Nitrate electrode for measuring nitrate with automatic Cl compensation	107 049
VARiON®*Plus* Cl		107 047
CH	Cleaning head	900 107
MIQ/CHV PLUS	Valve module for automatic cleaning by compressed air controlled directly via the IQ SENSOR NET bus	480 018
DIQ/CHV	Valve module for automatic compressed air cleaning for System 182; accessible by means of an DIQ/S 182 relay	472 007

IP 68 CE cETLus 2 *Year Warranty

* on armatures

Standard solutions see brochure "Product Details"