

NITRATO

Nitrate Analyser



The NITRATO series features online analysers for the continuous monitoring of the nitrate nitrogen concentration ($\text{NO}_3\text{-N}$).

The advantages of the analyser include automatic calibration at regular intervals and the integrated sample pump, which makes an external feeding pump unnecessary in most cases.

Available in three different housings: Standing with castors as NITRATO-LAB, wall-mounted as NITRATO-PRO or as NITRATO-FIX in a heated stainless steel cabinet for outdoor installation at the site of measurement.

○ Automatic Calibration

○ Minimum maintenance

○ Sturdy design

○ pH regulation

Method

NITRATO analysers measure the nitrate concentration of the sample continuously 24/7 with an ion selective electrode. While the measurement principle is identical to that of probe systems, the analysers offer additional features: NITRATO analysers regulate the pH to the optimum value (an important, often ignored condition for correct nitrate values) and automatically takes care of the regular calibrations.

Another advantage lies in the fact that thanks to large pipe and tube diameters no filtration is required, saving money and time-consuming maintenance.

Applications

Process water
(chemical industry
pharmaceutical
industry, food industry)

Wastewater treatment
plants

NITRATO Series Analysers

Measuring method	Ion selective electrode, potentiometric
Measuring interval	10 min~24 h, freely selectable
Measuring range	0~20 mg/l NO ₃ -N, 0~200 mg/l NO ₃ -N
Accuracy	± 5% of measured value ± 0.2 mg/l
Resolution	0.01 mg/l (measured value 0.01~9.99 mg/l) 0.1 mg/l (measured value ≥ 10.0 mg/l)
Repeatability	± 2% of measured value
Calibration	Automatic, manual or via remote control
Sample volume	1~2 l/h
Signal output	4~20 mA, RS 232, optional RS 422
Alarm output	Potential free contact
Power supply	230 V AC ± 10%, 50 Hz, optional 115 V AC ± 10%, 60 Hz
Sample temperature	4~40 °C

Housing data

NITRATO-LAB

Description	Sheet steel housing with castors
Power consumption	Max. 80 VA
Ambient temperature	4~45 °C
Dimensions	690 mm × 1780 mm × 690 mm
Weight	Approx. 120 kg (without reagents)
Protection class	IP 44

Product code 747 442



NITRATO-PRO

Description	Sheet steel housing for wall mounting
Power consumption	Max. 80 VA
Ambient temperature	4~45 °C
Dimensions	600 mm × 1140 mm × 400 mm + 600 mm × 110 mm × 400 mm (drip pan)
Weight	Approx. 90 kg (without reagents)
Protection class	IP 44

Product code 747 452



NITRATO-FIX

Description	V2A stainless steel isolated with 40 mm PU foam
Power consumption	Max. 350 VA
Ambient temperature	-20~45 °C
Dimensions	720 mm × 1930 mm × 720 mm
Weight	Approx. 140 kg (without reagents)
Protection class	IP 65

Product code 746 402



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