

AMMONO

Ammonium Analyser



The AMMONO series features online analysers for monitoring of the ammonium concentration $\text{NH}_4\text{-N}$ or NH_4 .

Thanks to gas sensitive measurement technology, AMMONO is not affected by interference ions. 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 AMMONO-LAB, wall-mounted as AMMONO-PRO or as AMMONO-FIX in a heated stainless steel cabinet for outdoor installation at the site of measurement.

- Minimum maintenance
- Easy operation
- Highly reliable
- Low operating costs
- Sturdy
- No sample preparation

Method

The measuring principle is based on the gas sensitive measurement by means of an ammonia electrode. The ammonium present in the sample (NH_4) is converted into ammonia (NH_3) at increased pH values. This easy, reliable and exact measuring principle is not affected by solids in the sample.

Thanks to large pipe and tube diameters no filtration is required, saving money and time-consuming maintenance.

Applications

Process water (paper industry, refineries, pharmaceutical industry)

Municipal waste water

Landfill water

River water

General technical data

AMMONO Series Analysers

Measuring method	Gas sensitive NH ₃ measurement
Measuring interval	10 min~24 h, freely selectable
Measuring range	0.1~20 mg/l; 0.1~200 mg/l
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	± 1% 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

AMMONO-LAB

Description	Sheet steel housing with castors
Power consumption	Max. 100 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 747 062



AMMONO-PRO

Description	Sheet steel housing for wall mounting
Power consumption	Max. 100 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 747 082



AMMONO-FIX

Description	V2A stainless steel isolated with 40 mm PU foam
Power consumption	Max. 300 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 746 012



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