

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
- Highly reliable
- Sturdy
- Easy operation
- Low operating costs
- 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. A sieve to hold back coarse dirt is sufficient, 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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