



Amtax sc Ammonium analyser on-site, outdoor, 0.05 - 20 mg/L NH₄-N, 10 m

Produktnr:

LXV421.99.12001 Farligt

UTGÅNGEN ARTIKEL

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Transparent, high quality measurement technology for reliable values with short response time

High precision process-instrument for the determination of ammonium in water, waste water and activated sludge. Outdoor enclosure. Incl. filter probe with 10m hose. 230V AC/50 Hz power supply.

The sample preparation is done by an integrated sample preparation probe with 10 m heated hose. The filtration probe is operating at 230V. Evaluation and operation with SC 1000 Controller. The analyser is equipped with an insulated enclosure for outdoor installation. The sample can be analysed before any degradation. The ammonium in the sample is first converted to gaseous ammonia. Only the NH₃ gas passes through the gas-permeable membrane of the electrode and is detected. This method guarantees a wide measuring range and is less susceptible to cross-sensitivity methods that make use of an ion-selective electrode (ISE). In situ membrane filtration; filter modules are exchangeable.

Prognosys ensures confidence in your instrument readings. Prognosys will monitor, provide reliable instrument measurement values and identify when upcoming maintenance tasks are due in an easy-to-read colour display.

Wide measuring range

Amtax sc Ammonium Analysers are available in four measuring ranges. With detection limits as low as 0.02 mg/L and as high as 1000 mg/L, the Amtax sc can be used anywhere in the wastewater treatment process, from the influent or start of the nitrification process with high NH₄-N levels to the effluent with only low ammonium levels. In the lowest range it can also be used for drinking water applications.

Fast response time for control of nutrient removal process

Nutrient removal is a critical and sensitive process in wastewater treatment. Quick response is vital for optimal operation. The fast response time of only 5 minutes, including sample preparation and selection of the measurement interval, make the Amtax sc one of the fastest responding ammonium analysers on the market.

Easy installation

The Amtax sc Analyser is designed to be installed at the measuring location, including outdoor locations. The housing is weatherproof and lockable so that the analyser can be installed right at the basin, even in the toughest climates.

The Amtax sc easily mounts to a wall, rail- and stand-mounting options are available. Due to its SC technology the analyser is ready for use in the network of the SC controller ("plug-and-play").

Low maintenance and simple operation

The analyser calibrates and cleans itself automatically and is equipped with comprehensive self-diagnostic routines. With at least a 3-month supply of reagents (for 5 min interval), the Amtax sc analyser offers the most economical reagent consumption. Reagents and wear parts are easily accessible.

Optional with sample preparation or second channel

The Amtax sc analyser works with a low-maintenance filtration system (e.g. Filtrax) that removes particles larger than 0.15 µm. The filtrate is sent to the analyser while air bubbles constantly clean the filtration membrane.

The analyser is also available as two channel version for measurement at two different sampling points.

Specifikationer

Antal kanaler:	1
Arbetsluftfuktighet:	95 % relativ fuktighet, ej kondenserande
Dataöverföring:	strömutgång, reläer och bus-kommunikation via sc-instrument
Detektionsgräns:	0.05 mg/L NH ₄ -N
Dimension (H x B x D):	720 mm x 540 mm x 390 mm
Flöde:	1 - 20 L/h prov
Garanti :	24 månader
Inomhus/Utomhus:	Utomhus
Kabellängd:	2 m fast matningskabel vid analysatorn
Kapslingsklass:	IP55
Kloridtolerans:	Max. Cl ⁻ concentration: 1000 mg/L
Lagringsförhållanden:	4 - 55 °C lägre än 95 % relativ luftfuktighet
Lägsta detektionsgräns:	0.05 mg/L NH ₄ -N
Material:	ASA/PC UV-beständig
Mätintervall:	5 - 120 min (fasta värden går att välja)
Mätmetod:	GSE (Gas Selective Electrode) with screw-on membrane cap
Matningskrav (Hz):	50 Hz
Matningskrav (Spänning):	230 V AC, matas av Power Box eller SC1000
Mätområde:	0,05 - 20,0 mg/L NH ₄ -N
Mätprincip:	GSE (gaskänslig elektrod)
Noggrannhet:	Using standard solutions: 3 % + 0.05 mg/L
Omgivningstemperatur:	-20 - 45 °C
Parameter:	Ammonium
pH-område:	5 - 9 pH
Provkvalitet:	Ultrafiltrerad eller jämförbart
Provnivå:	Vätskenivån i bassäng med filterenhet måste ligga under analysatorn
Provtagningsalternativ:	With Filterprobe (10 m heated hose)
Provtemperatur:	4 - 40 °C
Reproducerbarhet:	2 % + 0,05 mg/L
Responstid :	< 5 minutes, including sample preparation
Säkringsskydd:	Via sc 1000-instrument eller strömförsörjningsenheten, maximalt 2 analysatorer för varje sc 1000 eller strömförsörjningsenhet
Specialfunktioner:	Lockable housing; automatic cleaning and calibration; extensive self-diagnostics
Strömutgång:	relä, strömutgångar, bus-gränssnitt via något av instrumenten sc 1000 och sc 200
Tryckområde:	-30 - 50 mbar med kontinuerlig provberedning; via bräddavlopp
Utgång :	Current output, relays and bus communication via SC controller
Vad ingår i leveransen:	0.05 - 20 mg/L NH ₄ -N, 230 VAC Amtax sc Ammonium Analyser, Filterprobe sc with 10 m heated hose, 3 month supply of all necessary consumables at 5 minute cycle time, user manuals.
Vikt :	Without sample preparation system and without chemicals: 31 kg

Vad finns i förpackningen

0.05 - 20 mg/L $\text{NH}_4\text{-N}$, 230 VAC Amtax sc Ammonium Analyser, Filterprobe sc with 10 m heated hose, 3 month supply of all necessary consumables at 5 minute cycle time, user manuals.

Obligatoriska tillbehör

- SC1000 probmodul för 4 givare, 4x 4 - 20 mA UT, relä, 110 - 240 VAC, EU-kabel (Item LXV400.99.2R121)
- SC1000 displaymodul (Item LXV402.99.00001)