



EZ4005 Ammonium Analyser, 1 stream, Modbus RS485



Product #: EZ4005.99001C02
SGD Price: Contact Hach

Online, automatic titration of Ammonium in water monitoring applications

State of the art titration platform

The EZ4000 Series Analysers are single-parameter titrators built on an industrial analytical platform. High precision dispensers, robust peristaltic pumps and carefully designed liquid pathways all add up to the highest performance for industrial and environmental analysis needs.

Unique flexibility in titration methods

Every application starts with the basics: the right titrimetric technique for the parameter of interest, the measuring range and the water matrix. Depending on the change in the specific variables, the EZ4000 Series run either acid-base, redox, precipitation or photocolourimetric titration allowing for a unique flexibility.

The EZ4005 Ammonium Analysers use acid-base titration. They combine an unparalleled expertise in online titration with a set of unique analysis, control and communication features in a compact footprint:

- Wide standard range of 0-5000 mg/L NH₄-N
- Smart automatic features
- Control and communication via industrial panel PC
- Analogue and digital output options
- Multiple stream analysis (up to 8 streams)

There are many additional options available. Please contact Hach for more details.

Specifications

Alarm:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Ambient Temperature:	10 - 30 °C ±4 °C deviation at 5 - 95% relative humidity (non-condensing)
Calibration:	N.A.
Certifications:	CE compliant / UL certified
Cycle Time:	10 - 15 minutes
Digital outputs:	Modbus RS485

Dimensions (H x W x D):	690 mm x 465 mm x 330 mm
Drain:	Atmospheric pressure, vented, min. Ø 64 mm
Earth connection:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm ²
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interferences:	Soaps, oily matter, suspended solids or precipitates may coat the glass electrode and cause a sluggish response. Allow additional time between titrant additions to let the electrode come to equilibrium or clean the electrodes occasionally. Alkaline compounds may interfere with the titration.
Lower Limit of Detection (LOD):	≤ 10 mg/L
Material:	Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanised steel, powder coated
Measurement method:	Acid-base titration with sulphuric acid, conform with standard method APHA 4500-NH3
Number of sample streams:	1 stream
	Optional: 1 to 8 streams
Output:	Modbus RS485 Optional: Active 4 - 20 mA max. 500 Ohm load, 1 to 8 outputs RS232, Modbus TCP/IP
Parameter:	Ammonium
Power:	110 - 220 VAC, 2 A, 50/60Hz Max. power consumption: 150 VA Other voltages available on request
Precision:	Better than 2% full scale range for standard test solutions
Protection Class:	Analyser cabinet: IP55 / Panel PC: IP65
Range:	100 - 5000 mg/L NH ₄ -N Optional: 10 - 500 mg/L NH ₄ -N 25 - 1250 mg/L NH ₄ -N 50 - 2500 mg/L NH ₄ -N
Reagent Requirements:	Keep between 10 - 30 °C
Sample Flow Rate:	100 - 300 mL/min
Sample Pressure:	By external overflow vessel
Sample Quality:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Sample Temperature:	10 - 30 °C
Validation:	Automatic; frequency freely programmable
Warranty:	2 years
Weight:	25 kg