Ammonium analyzer Liquiline System CA80AM

Colorimetric system for online monitoring of water and wastewater treatment

More information and current pricing:
www.lasc.endress.com/CA80AM

Benefits:

- Fast commissioning and plug & play thanks to Memosens technology and user-friendly operation
- Easy upgrade of functionality - even to a complete measuring station - simply by adding modules and connecting Memosens sensors
- Advanced diagnostics with remote access for increased process safety
- Reduced operating costs through automatic, configurable calibration and cleaning and long reagent shelf life with optional cooling module
- Compliance with standard colorimetric measuring principle - indophenol blue method - following ISO 7150-1, DIN 38406-5 and GB 7481-87

Specs at a glance

- **Measurement range** 0.05 to 20 mg/l NH4-N 0.5 to 50 mg/l NH4-N 1 to 100 mg/l NH4-N 0.5 to 50 mg/l with dilution function to maximum 10 to 1000 mg/l NH4-N
- **Process temperature** 4 to 40 °C (39 to 104 °F)
- **Process pressure** Unpressurized
- **Measuring method** Comply with standard colorimetric measuring principle - indophenol blue method following ISO 7150-1, DIN 38406-5 and GB 7481-87

Field of application: Liquiline System CA80AM offers high-precision ammonium measurement in all critical control points. As member of the Liquiline platform, it enables plug & play and easy upgrade to a measuring station - minimizing the installation effort. Automatic calibration and cleaning as well as the low consumption of reagents save you operating and maintenance costs. Advanced diagnostics with remote

access ensure process safety and support you in providing process documentation to the authorities.

Features and specifications

Analyser

Measuring principle
Colorimetric

Characteristic
Analyzer for ammonium in aqueous solutions

Measuring method
Comply with standard colorimetric measuring principle - indophenol blue method following ISO 7150-1, DIN 38406-5 and GB 7481-87

Size
Cabinet:
793 x 530 x 417 mm
31.22 x 20.87 x 16.42 inch
Stand housing:
1693 x 530 x 417 mm
66.65 x 20.87 x 16.42 inch

Design
Open design / cabinet:
Plastic ASA-PC
Stand housing:
Plastic ASA-PC, steel coated

Process temperature
4 to 40 °C (39 to 104 °F)

Ambient temperature
5 to 40 °C (41 to 104 °F)

Outdoor version: - 20 to 40 °C (-4 to 104 °F)

Process pressure
Unpressurized

Analyser

Sample flow rate

Min. 5 ml/min (0.17 fl.oz/min)

Consistency of the sample

Low solids content
Turbitity < 50 NTU, aqueous, homogenized

Specials

Easy upgrade to measuring station with up to four digital Memosens sensors
Automatic calibration and cleaning
User-configurable measuring, cleaning and calibration intervals
Optional cooling module for longer reagent life time
Automatic calibration and cleaning
Optional 2 channel version
User-definable measuring ranges
Flexibale functionality and modular expandable
Digital communication for remote access

Application

Monitoring and optimization of the cleaning capacity of municipal and industrial wastewater treatment plants
Monitoring of the wastewater treatment plant outlet for documentation purposes
Monitoring and optimization of activated sludge basins

Power supply

100 to 120 VAC / 200 to 240 VAC ± 10%
24 VDC ± 10%
50 ± 1 or 60 ± 1.2 Hz

Output / communication

2x 0/4 to 20 mA
Optional: Webserver, Modbus, Ethernet/IP, Profibus DP

Analyser

Input

1 or 2 measuring channels
Optinonal 1 to 4 digital sensor inputs for sensors with Memosens protocol

Measurement range

0.05 to 20 mg/l NH4-N
0.5 to 50 mg/l NH4-N
1 to 100 mg/l NH4-N

0.5 to 50 mg/l with dilution function to maximum 10 to 1000 mg/l NH4-N

Consumables

Reagents and standard solutions CY80AM
Cleaner CY800
Maintenance kit CAV800

More information **www.lasc.endress.com/CA80AM**

Endress+Hauser International addresses.endress.com
Latin America info.pa.scii@endress.com
Panama