Aluminum analyzer Liquiline System CA80AL

Colorimetric system for drinking water and wastewater monitoring and optimization of process control

More information and current pricing:
www.th.endress.com/CA80AL

Benefits:

- The aluminum analyzer uses the pyrocatechol violet method according to DIN ISO 10566, ensuring direct comparability to lab results
- Supports predictive maintenance by advanced diagnostics
- Reduces operating costs thanks to automatic calibration and cleaning as well as low reagent consumption
- Easy upgrade of functionality to a complete measuring station - by adding modules and connecting Memosens sensors.
- Comfortable remote access via integrated web server
- Seamless integration into process control systems thanks to digital field buses such as Modbus, PROFIBUS, EtherNet/IP

Specs at a glance

- **Measurement range** 15 to 1000 µg/l Al 15 to 1000 µg/l with dilution function to maximum 300 to 20 000 µg/l Al
- **Process temperature** 4 … 40 °C (39.2 … 104 °F)
- **Process pressure** at atmospheric pressure, < 0.2 bar

Field of application: Liquiline System CA80AL offers precise, regulation-compliant online measurement of aluminum residues in drinking water and wastewater. The analyzer helps you to optimize aluminum dosing in flocculation processes and phosphate removal. It enables plug & play of up to 4 Memosens sensors – minimizing the installation effort. Automatic calibration and cleaning and the low reagent consumption reduce operating costs while advanced diagnostics with remote access ensure process safety.

Features and specifications

Analyser

Measuring principle
Colorimetric

Characteristic
Process analyzer for aluminum in aqueous solutions

Comply with standard colorimetric measuring principle - pyrocatechol violet methot

Size
Housing (open version):

793 x 530 x 417 mm

31.22 x 20.87 x 16.42 in

Housing (closed version):

793 x 530 x 463 mm

31.22 x 20.87 x 18.23 in

Housing with base:

1723 x 530 x 463 mm

67.83 x 20.87 x 18.23 in

Design
Open design, cabinet and stand housing
High-Performance plastic ASA-PC, additional stand coated steel

Process temperature
4 … 40 °C (39.2 … 104 °F)

Analyser

Ambient temperature
5 ... 40C (41 ... 104F)

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

Process pressure
at atmospheric pressure, < 0.2 bar

Sample flow rate
min. 5ml/min (0,17 fl.oz/min)

Consistency of the sample
low solid content (< 50NTU), aqueous homogeneous

Application
Monitoring of the aluminum content of potable water, mineral water and industrial waste water

Power supply
100 ... 120 VAC / 200 ... 240 VAC ± 10%
24 VDC ± 10%
50 ± 1 oder 60 ± 1,2 Hz

Output / communication
2x 0/4 ... 20 mA
Webserver, Modbus, Ethernet/IP, Profibus DP

Input
1 or 2 measuring channel

1 ... 4 digital sensor inputs for sensors with Memosens protocol (optional)

Measurement range
15 to 1000 µg/l Al

15 to 1000 µg/l with dilution function to maximum 300 to 20 000 µg/l Al

Analyser

Consumables

Reagents and standard solutions CY80AL as well as cleaner CY800 are necessary for the operation. Regular maintenance is done with the parts of the maintenance kit CAV800.

More information **www.th.endress.com/CA80AL**

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