Water hardness analyzer Liquiline System CA80HA

Colorimetric system for online monitoring of drinking water and process water

More information and current pricing:
www.ch.endress.com/CA80HA

Benefits:

- The water hardness analyzer uses the phthalein purple method, ensuring direct comparability to lab results
- Fast commissioning with plug & play thanks to Memosens technology and user-friendly operation
- Reduces operating costs thanks to automatic calibration and cleaning, low reagent consumption and long reagent lifetime with optional cooling module
- Easy upgrade of functionality to a complete measuring station - by adding modules and connecting Memosens sensors.
- Advanced diagnostics with remote access for increased process safety
- Easy, tool-free maintenance

Specs at a glance

- **Measurement range** 0 to 80 mg/l CaCO3 0 to 80 mg/l with dilution function to maximum 16 to 1600 mg/l CaCO3
- **Process temperature** 4 to 40 °C (39 to 104 °F)
- **Process pressure** Unpressurized

Field of application: Liquiline System CA80HA offers precise online analysis of water hardness in drinking water and process water. It helps you optimize the control of water softening processes such as ion exchange or reverse osmosis and ensures optimal quality of products that are influenced by water hardness. The analyzer's automatic calibration and cleaning and its low reagent consumption reduce operating costs while advanced diagnostics with remote access ensure consistent process safety.

Features and specifications

Analyser

Measuring principle
Colorimetric

Characteristic
Process analyzer for hardness in aqueous solutions
Comply with standard colorimetric measuring principle - phthalein purple method

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 to 40 °C (39 to 104 °F)

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

Process pressure
Unpressurized

Sample flow rate
Min. 5 ml/min (0.17 fl.oz/min)

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

Analyser

Application

Total hardness monitoring in reverse osmosis systems inlets, after ion exchange systems
Monitoring of water preparation in processes and drinking 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

0 to 80 mg/l CaCO3
0 to 80 mg/l with dilution function to maximum 16 to 1600 mg/l CaCO3

Consumables

Reagents and standard solutions CY80HA 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.ch.endress.com/CA80HA**

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