Iron analyzer
Liquiline System CA80FE

Colorimetric system for monitoring of drinking water, mineral water and process water

More information and current pricing:
www.endress.com/CA80FE

Benefits:

- Compliance with standard ferrozine method ensures direct comparability to lab measurements
- Supports predictive maintenance by advanced diagnostics
- Reduced operating costs through automatic calibration and cleaning as well as low reagent consumption
- Easy upgrade of functionality - even to a complete measuring station - simply by adding modules and connecting Memosens sensors.
- Comfortable remote access via integrated web server
- Seamless integration into process control systems thanks to digital field busses such as Modbus, PROFIBUS or EtherNet/IP

Specs at a glance

- **Measuring range** 0.05 to 2 mg/l Fe 0.1 to 5 mg/l Fe 0.1 to 5 mg/l with dilution function to maximum 2.0 to 100 mg/l Fe
- **Process temperature** 4 to 40 °C (39.2 to 104 °F)
- **Process pressure** At atmospheric pressure, < 0.2 bar

Field of application: Liquiline System CA80FE offers precise, regulation-compliant online measurement. It supports you in controlling the iron content of drinking water, mineral water or source water for industrial processes. Like all Liquiline System analyzers, it enables plug & play of up to four 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 iron in aqueous solutions
Comply with standard colorimetric measuring principle, ferrozine 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 (39.2 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

At atmospheric pressure, < 0.2 bar

Sample flow rate

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

Analyser

Consistency of the sample

Suspended solids content
Turbitity < 50 NTU, aqueous, homogenized

Application

Monitoring of the iron content of potable water, mineral water and source water for industrial processes

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
Webserver, Modbus, Ethernet/IP, Profibus DP

Input

1 or 2 measuring channel
1 to 4 digital sensor inputs for sensors with Memosens protocol (optional)

Measuring range

0.05 to 2 mg/l Fe
0.1 to 5 mg/l Fe
0.1 to 5 mg/l with dilution function to maximum 2.0 to 100 mg/l Fe

Consumables

Reagents and standard solutions CY80FE for the operation
Regular maintenance is done with the parts of the maintenance kit CAV800

More information **www.endress.com/CA80FE**