

# Iron analyzer

## Liquiline System CA80FE

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



More information and current pricing:

[www.at.endress.com/CA80FE](http://www.at.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

- **Measurement 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.

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## Features and specifications

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### Analyser

**Measuring principle**

Colorimetric

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**Characteristic**

Process analyzer for iron in aqueous solutions

Comply with standard colorimetric measuring principle, ferrozine method

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**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

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**Design**

Open design, cabinet and stand housing

High-Performance plastic ASA-PC, additional stand coated steel

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**Process temperature**

4 to 40 °C (39.2 to 104 °F)

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**Ambient temperature**

5 to 40 °C (41 to 104 °F)

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

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**Process pressure**

At atmospheric pressure, < 0.2 bar

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**Sample flow rate**

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

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## Analyser

### Consistency of the sample

Suspended solids content

Turbidity < 50 NTU, aqueous, homogenized

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### Application

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

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### Power supply

100 to 120 VAC / 200 to 240 VAC  $\pm$  10%

24 VDC  $\pm$  10%

50  $\pm$  1 or 60  $\pm$  1,2 Hz

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### Output / communication

2x 0/4 to 20 mA

Webserver, Modbus, Ethernet/IP, Profibus DP

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### Input

1 or 2 measuring channel

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

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### Measurement 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

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### Consumables

Reagents and standard solutions CY80FE for the operation

Regular maintenance is done with the parts of the maintenance kit CAV800

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