Iron analyzer
Liquiline System CA80FE

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

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.
Features and specifications

### Analyser

<table>
<thead>
<tr>
<th>Measuring principle</th>
<th>Colorimetric</th>
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<tbody>
<tr>
<td><strong>Characteristic</strong></td>
<td>Process analyzer for iron in aqueous solutions Comply with standard colorimetric measuring principle, ferrozine method</td>
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<tr>
<td><strong>Size</strong></td>
<td></td>
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<tr>
<td>Housing (open version):</td>
<td>793 x 530 x 417 mm 31.22 x 20.87 x 16.42 in</td>
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<tr>
<td>Housing (closed version):</td>
<td>793 x 530 x 463 mm 31.22 x 20.87 x 18.23 in</td>
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<tr>
<td>Housing with base:</td>
<td>1723 x 530 x 463 mm 67.83 x 20.87 x 18.23 in</td>
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<tr>
<td><strong>Design</strong></td>
<td>Open design, cabinet and stand housing High-Performance plastic ASA-PC, additional stand coated steel</td>
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<tr>
<td><strong>Process temperature</strong></td>
<td>4 to 40 °C (39.2 to 104 °F)</td>
</tr>
<tr>
<td><strong>Ambient temperature</strong></td>
<td>5 to 40 °C (41 to 104 °F) Outdoor version: -20 to 40 °C (-4 to 104 °F)</td>
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<tr>
<td><strong>Process pressure</strong></td>
<td>At atmospheric pressure, &lt; 0.2 bar</td>
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<tr>
<td><strong>Sample flow rate</strong></td>
<td>Min. 5 ml/min (0.17 fl.oz/min)</td>
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</table>
## Consistency of the sample
Suspended solids content
Turbidity < 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)

## 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

## 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](http://www.endress.com/CA80FE)