

Анализаторы химического состава Liquiline System CA80SI

Техническая информация

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Silica analyzer

Liquiline System CA80SI

Colorimetric system for the monitoring of boiler feedwater, steam, condensate and ion exchangers



Benefits:

- Protection of expensive plant equipment in the power industry: The silica analyzer monitors trace levels of silica in water steam cycles helping to avoid glass-like deposits on the equipment surfaces.
- Early online detection of critical silica levels ensures efficient power plant performance and optimizes maintenance and blowdown cycles by early counter measures.
- Standard heteropoly blue method allows direct comparability to lab results.
- Best reliability: Unique combination of peristaltic and high-precisions dispenser pumps ensures stable operation and low maintenance.
- Optimized investment: The option of up to 6 sample channels meets changing process needs at any time, and connection of Memosens sensors allows an easy upgrade to a complete measuring station.
- Seamless integration into process control systems thanks to digital field buses such as Modbus, EtherNet/IP or PROFIBUS.
- Advanced diagnostics and remote access via web server enable fast remedy in case of errors.

Specs at a glance

- **Measurement range** 0 to 500 $\mu\text{g/l}$ (ppb) 50 to 5000 $\mu\text{g/l}$ (ppb)
- **Process temperature** 5 to 45 $^{\circ}\text{C}$ (41 to 113 $^{\circ}\text{F}$)
- **Process pressure** 1 to 5 bar (14.5 to 72.5 psi)
- **Measuring method** Comply with standard colorimetric measuring principle - heteropoly blue method

Field of application: Liquiline System CA80SI provides precise online analysis of silica and helps protect plant equipment from glass-like deposits ensuring optimum performance of turbines and ion exchangers. Its unique combination of peristaltic and high-precision dispenser pumps enables extremely reliable operation and low maintenance. The silica analyzer offers advanced diagnostics and can be easily adapted to your process needs by retrofitting up to 6 channels and connecting up to 4 Memosens sensors.

Features and specifications

Analyser

Measuring principle

Colorimetric

Characteristic

Analyzer for silica in aqueous solutions

Measuring method

Comply with standard colorimetric measuring principle - heteropoly blue 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

Plastic ASA-PC

Analyser**Process temperature**5 to 45 °C (41 to 113 °F)

Ambient temperature5 to 40 °C (41 to 104 °F)

Process pressure1 to 5 bar (14.5 to 72.5 psi)

Sample flow rate60 to 250 ml/min (2.03 to 8.45 fl.oz/min)

Consistency of the sampleParticle free

Specials

Easy upgrade to measuring station with up to four digital Memosens sensors

Automatic calibration and cleaning

User-configurable measuring, cleaning and calibration intervals
optional up to 6 sample channels

Flexible functionality and modular expandable

Digital communication for remote access

Application

Determination of silica concentration in boiler feed water

Monitoring of water-steam-circuit and condensate

Monitoring and optimization of reverse osmosis and desalination

Power supply100 to 120 VAC / 200 to 240 VAC \pm 10%50 \pm 1 or 60 \pm 1.2 Hz

Output / communication

2x 0/4 to 20 mA

Optional: Webserver, Modbus, Ethernet/IP, Profibus DP

Analyser

Input

1, 2, 4 or 6 measuring channels

Optional 1 to 4 digital inputs for sensors with Memosens protocol

Measurement range

0 to 500 µg/l (ppb)

50 to 5000 µg/l (ppb)

Consumables

Reagents and standard solutions CY80SI

Maintenance kit CAV800

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