Chromate analyzer Liquiline System CA80CR

Colorimetric system for the monitoring of industrial wastewater and optimization of process control

More information and current pricing:
www.be.endress.com/CA80CR

Benefits:

- Standardized colorimetric measuring principle - diphenyle carbazide method - guarantees compliance with discharge regulations.
- Reduced operating costs through automatic calibration and cleaning and low reagent consumption.
- Simple maintenance: no tools required.
- Advanced diagnostics with remote access for increased process safety.
- Fast commissioning and plug & play thanks to Memosens technology and user-friendly operation.
- Easy upgrade of functionality - even to a complete measuring station - simply by adding modules and connecting Memosens sensors. Reduces installation effort.

Specs at a glance

- **Measurement range** 0,03 to 2.5 mg/l Cr(VI) 0.2 to 5.0 mg/l Cr(VI) 0.2 to 5.0 mg/l with dilution function to maximum 10 to 250 mg/l Cr(VI)
- **Process temperature** 4 to 40 °C (39 to 104 °F)
- **Process pressure** At atmospheric pressure, < 0.2 bar absolute

Field of application: Liquiline System CA80CR offers highly accurate online measurement for optimized chromate removal in industrial wastewater. It supports you in achieving environmentally compliant electroplating and tanning processes. Like all Liquiline System analyzers, CA80CR enables plug & play of up to four Memosens sensors - minimizing the installation effort. Automatic calibration and cleaning

plus advanced diagnostics with remote access ensure consistent process safety.

Features and specifications

Analyser

Measuring principle
Colorimetric

Characteristic
Analyzer for Chromate (Chrome VI) in aqueous solutions

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)

Analyser

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 absolute

Sample flow rate

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

Consistency of the sample

Suspended solids content
Turbitity < 50 NTU, aqueous, homogenized

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 cooling module for longer reagent shelf life
2 channel version optional
User-definable measuring ranges
Modular design for easily extensible functionality
Digital communication for remote access

Application

Limit value monitoring of Chromate in potable water and waste water
Common applications are industrial waste water Monitoring for tanneries and the galvanic industry

Power supply

100 to 120 VAC / 200 to 240 VAC ± 10%
24 VDC ± 10%
50 ± 1 or 60 ± 1,2 Hz

Analyser

Output / communication

2x 0/4 to 20 mA
Modbus RS485/TCP (optional)
Ethernet (optional)
Alarmrelay

Input

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

Measurement range

0,03 to 2.5 mg/l Cr(VI)

0.2 to 5.0 mg/l Cr(VI)

0.2 to 5.0 mg/l with dilution function to maximum 10 to 250 mg/l Cr(VI)

Consumables

Reagents and standard solutions CY80CR 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.be.endress.com/CA80CR**