

8810 ONLINE ION SELECTIVE CHLORIDE ANALYZER

Applications

- Power
- Industrial Water



Delivering reliable results that save you critical time and effort.

The 8810 analyzer offers a new way of monitoring low-level chloride in power applications. The analyzer provides automatic, online monitoring based on ion selective technology analysis. Results provide the information needed to operate your power plant with a high level of reliability and efficiency. Also, the 8811 sequencer allows for up to six sample streams.

Save Time on Maintenance

The reactor is automatically cleaned after each cycle and the analyzer performs for up to 30 days unattended.

Easy to Use Setup

Intuitive programming that allows for quick setup and automatic calculation of results.

Minimize Downtime

Free programmable auto calibration ensures a constant check of the quality of the measurement.

Technical Data*

Number of sample streams	1 or 2	Rinse water pressure	1 to 6 bar
Sampling Mode	Fixed or loop	Process Connection (sample flow)	12/14 mm
Measuring Interval	5 to 999 min freely programmable	Drain	3 tubes of 12 mm (1/2" OD) for panel version or central funnel of 50 mm (2" OD) for wall mounted
Sample Temperature	5 to 50 °C	Weight	55.12 lbs. (25 kg)
Pressure Range	0.5 to 6 bar	Sensor	Chloride Ion Selective Electrode (ISE) type 8471B, reference electrode type 8483B
Sample Flow Rate	40 to 300 L/h	Temperature Compensation	Pt100 temperature sensor
Sample Volume	200 to 1000 mL per cycle	Ambient Temperature Range	5 to 55 °C
Sampling Quality	Maximum particles allowed in sample are 30 g/L with a maximum diameter of 2 mm	Range	Chloride Low Range: 0.02 to 5 mg/L Standard Range: 0.5 to 500 mg/L High Range: 50 to 20000 mg/L
Power Requirements (Voltage)	110 V	Accuracy	± 2 - 4 %
Power Requirements (Hz)	60 Hz	Calibration Method	Manual 2-point or 1-point calibration method
Process Connection (drain)	PG9 Mains PG7 Alarms and analog outputs	Current Output (Analog)	2 x 0/4 - 20 mA linear, logarithmic or bilinear programmable
Process connection (air)	4 / 6 mm or 1/4" OD tubing on request		
Pressurized air	4 to 7 bar filtered and dried air		
Process connection (inlet)	12/14 mm tubing or 1/2" OD tubing on request		
Process connection (rinse water)	6/8 mm tubing or 3/8" OD tubing on request		

**Subject to change without notice.*

Principle of Operation

The measurement principle is based on a direct potentiometric measurement using ion selective electrodes. The concentration is in accordance with the measured potential law NERNST.

$$E = E_0 + S \cdot \log C$$

E : measured potential

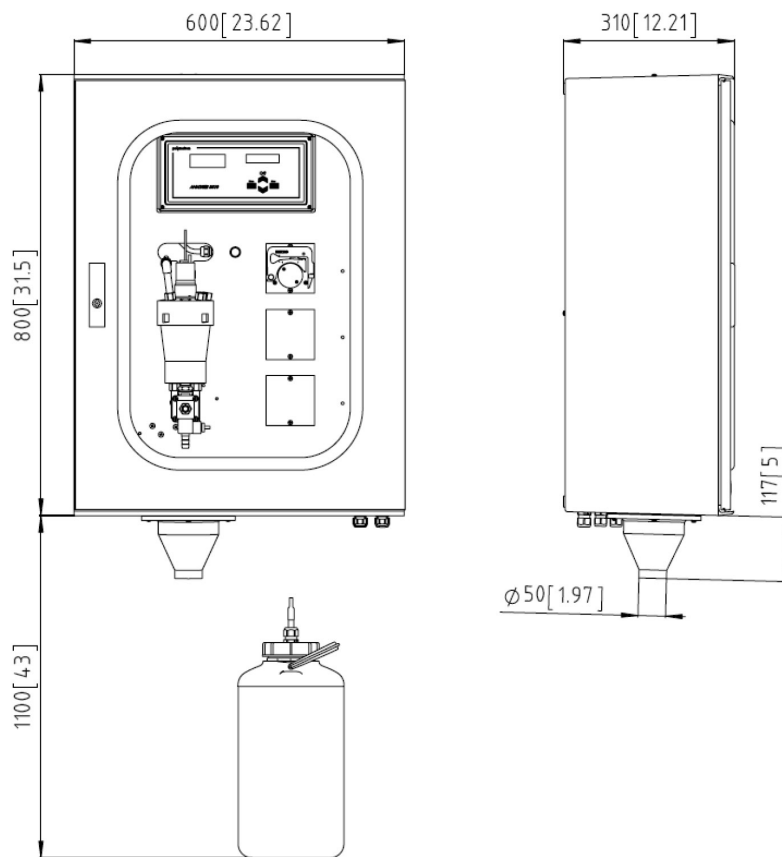
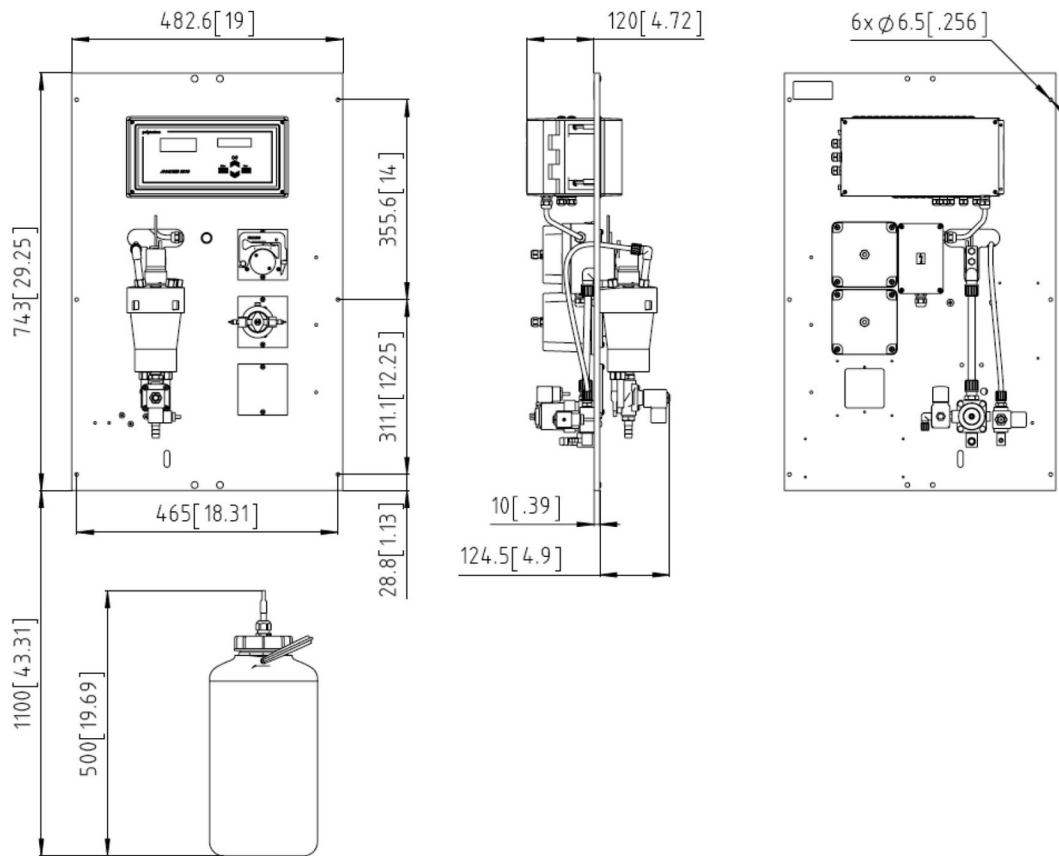
E_0 : standard potential

S : electrode slope

C : concentration

In the case of selective electrode, E_0 and S depend on the temperature.

Dimensions



Order Information

Low Range (0.02-5 mg/L Cl⁻)

08810_CL_LR 8810 Chloride Analyzer for Low Range with autocalibration

Standard Range (0.5-500 mg/L Cl⁻)

08810_CL_SR 8810 Chloride Analyzer for Standard Range with autocalibration

High Range (50-20000 mg/L Cl⁻)

08810_CL_HR 8810 Chloride Analyzer for High Range with autocalibration

Enclosure Options

91030=A=0211 Fiberglass enclosure NEMA4X free-standing version (double compartment)

91030=A=0212 Fiberglass enclosure NEMA4X version (single compartment)

91509=A=0152 Tropicalization of the 8810 Analyzer

368810,40000 Fiberglass enclosure (IP54) for wall-mounting

Multi Channel Options & Accessories

08810=A=3500 Second channel option for 8810 Analyzer ISE version

08811=A=2012 2 channels 8811 sequencer for 8810 Analyzer, 110 V 60 Hz

08811=A=2013 3 channels 8811 sequencer for 8810 Analyzer, 110 V 60 Hz

08811=A=2014 4 channels 8811 sequencer for 8810 Analyzer, 110 V 60 Hz

08811=A=2015 5 channels 8811 sequencer for 8810 Analyzer, 110 V 60 Hz

08811=A=2016 6 channels 8811 sequencer for 8810 Analyzer, 110 V 60 Hz

368810,93008 Spare parts kit (2 years), 8810 ISE Chloride Analyzer, Low Range

368810,93001 Spare parts kit (2 years), 8810 ISE Chloride Analyzer, Standard and High Range

Be certain in your measurements with a first class Service Partner. Be confident with Hach Service.

By having regular on-site preventative maintenance and calibration, you maximize your measurement reliability and instrument uptime. Hach Service Programs give you full assurance that your instruments stay in compliance, and you stay within your budget.

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United States: 800-227-4224 tel 970-669-2932 fax orders@hach.com

Outside United States: 970-669-3050 tel 970-461-3939 fax int@hach.com

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