

# 8810 ONLINE ION SELECTIVE CHLORIDE ANALYSER

## Applications

- Power
- Industrial water



## Delivering reliable results that save you critical time and effort.

The 8810 analyser offers a new way of monitoring low-level chloride in power applications. The analyser 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 analyser performs for up to 30 days unattended.

### Easy to Use Setup

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

### Minimise Downtime

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

## Technical Data\*

<b>Number of sample streams</b>	1 or 2	<b>Process connection (air)</b>	4/6 mm diameter tube connector
<b>Sampling mode</b>	Fixed or loop	<b>Weight</b>	25 kg
<b>Measuring interval</b>	5 - 999 min freely programmable	<b>Sensor</b>	Chloride Ion Selective Electrode (ISE) type 8471B, reference electrode type 8483B
<b>Sample temperature</b>	5 - 50 °C	<b>Temperature compensation</b>	Pt100 temperature sensor
<b>Pressure range</b>	0.5 - 6 bar	<b>Ambient temperature</b>	5 - 55 °C
<b>Flow rate</b>	40 - 300	<b>Measuring range</b>	Chloride 0.02 - 500 mg/L
<b>Sample volume</b>	200 - 1000 mL per cycle	<b>Accuracy</b>	± 2 - 4 %
<b>Sampling quality</b>	Maximum particles allowed in sample are 30 g/L with a maximum diameter of 2 mm	<b>Calibration method</b>	Manual 2-point or 1-point calibration method
<b>Power requirements (Voltage)</b>	110 - 240 V AC	<b>Current output</b>	2 x 0/4 - 20 mA linear, logarithmic or bilinear programmable
<b>Power requirements (Hz)</b>	50 Hz		
<b>Process Connection (drain)</b>	2 x cable glands for diameter 2-6 mm  3 x cable glands for diameter 13-18 mm		

*\*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

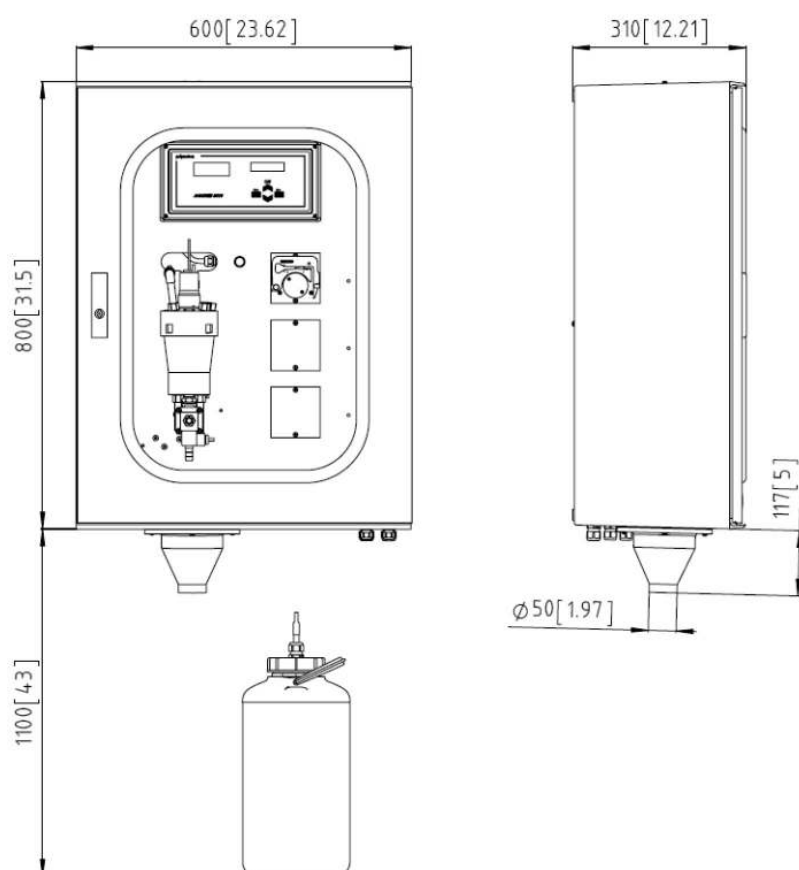
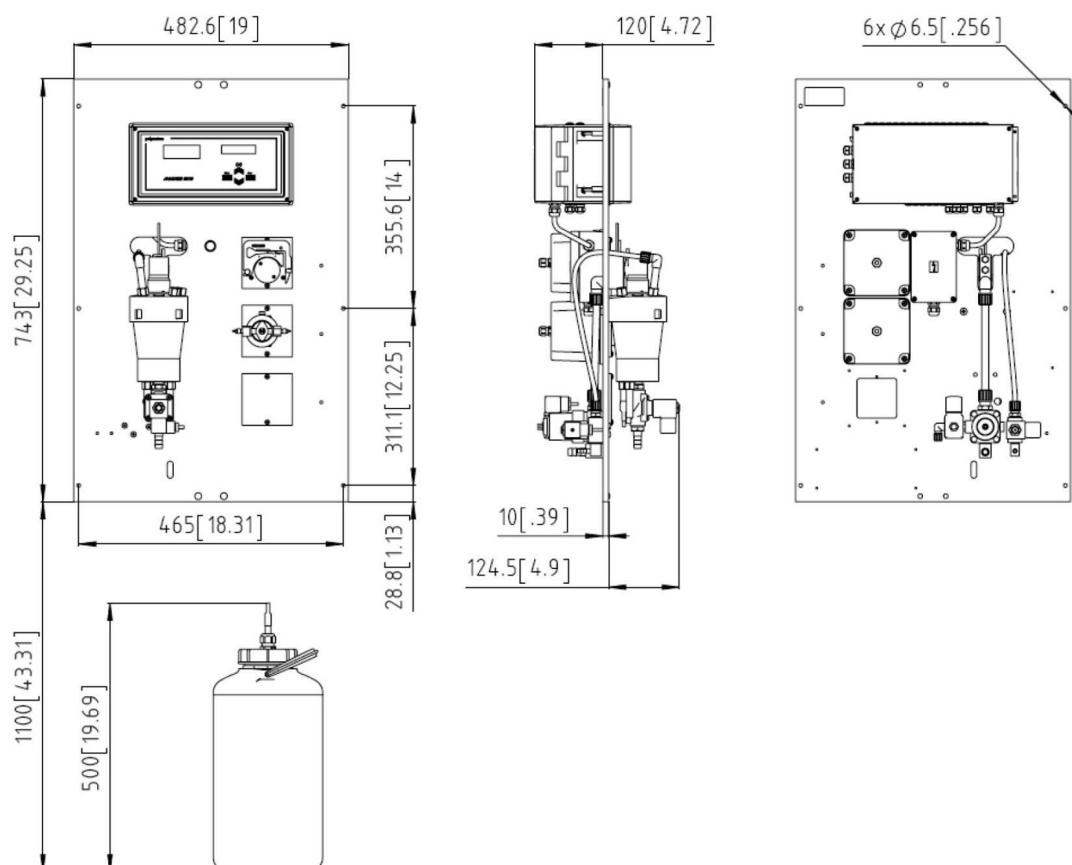
E<sub>0</sub> : standard potential

S : electrode slope

C : concentration

In the case of selective electrode, E<sub>0</sub> and S depend on the temperature.

## Dimensions



## Order Information

### Low Range (0.02-5 mg/L Cl<sup>-</sup>)

**368810,38220**

8810 Chloride Analyser for Low Range, 220 VAC 50 Hz

**368810,38240**

8810 Chloride Analyser for Low Range, 240 VAC 50 Hz

*Option for Low Range*

**368810,60000**

Automatic system calibration complete with 10L canister and level detector

### Standard Range (0.5-500 mg/L Cl<sup>-</sup>)

**368810,31220**

8810 Chloride Analyser for Standard or High Range, 220 VAC 50 Hz

**368810,31240**

8810 Chloride Analyser for Standard or High Range, 240 VAC 50 Hz

*Option for Standard Range*

**368810,72000**

Automatic calibration pulse pump for 8810 ISE complete

### High Range (50-20000 mg/L Cl<sup>-</sup>)

**368810,31220**

8810 Chloride Analyser for Standard or High Range, 220 VAC 50 Hz

**368810,31240**

8810 Chloride Analyser for Standard or High Range, 240 VAC 50 Hz

*Option for High Range*

**368810,60000**

Automatic system calibration complete with 10L canister and level detector

**08810=A=5300**

Automatic sample dilution complete with valve

### Common Accessories & Consumables

**368810,00100**

Reagent canister holder (up to 4 x 10-liter canisters)

**368810,65000**

Manual sample entry system

**368810,93001**

Spare parts kit (2 years), 8810 ISE Analyser with chloride electrode

### Common 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**

Tropicalisation of the 8810 Analyser

**368810,40000**

Fiberglass enclosure (IP54) for wall-mounting

### Common Multi Channel Options

**08810=A=3500**

Second channel option for 8810 Analyser ISE version

**08811=A=2032**

2 channels 8811 sequencer for 8810 Analyser, 220 V 50 Hz

**08811=A=2033**

3 channels 8811 sequencer for 8810 Analyser, 220 V 50 Hz

**08811=A=2034**

4 channels 8811 sequencer for 8810 Analyser, 220 V 50 Hz

**08811=A=2035**

5 channels 8811 sequencer for 8810 Analyser, 220 V 50 Hz

**08811=A=2036**

6 channels 8811 sequencer for 8810 Analyser, 220 V 50 Hz