CHLORIDE 8810 Analyser

■ *Application*

- Condensate leakage monitoring
- Drinking water and surface water control

■ *Methodology*

Measuring principle :
Direct by CHLORIDE ION SELECTIVE ELECTRODE

Measuring range :
0.5...100 mg/l of Cl

Detection limit : 0.5 mg/l

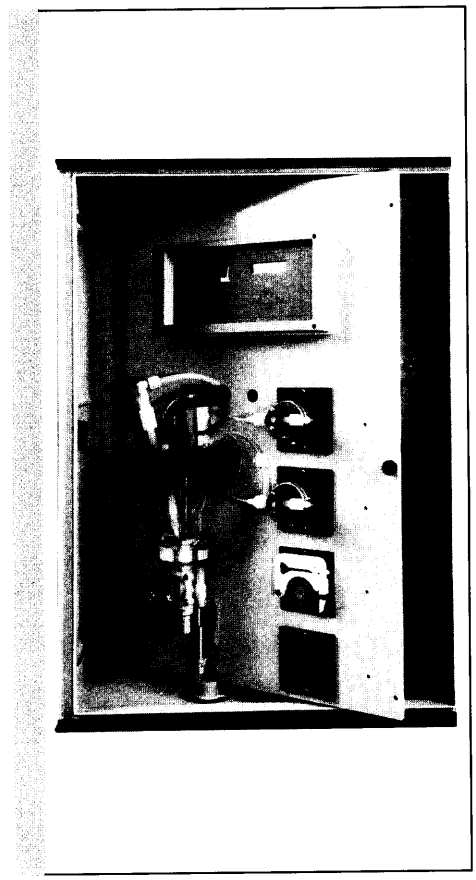
Calibration solution :
Sodium chloride (NaCl)

Conditioning solution :
H2SO4, 5 ml/l

Analysis frequency :
Programmable - 1 analysis each 5 min. max.

■ *Advantages*

- No sample filtration (if any suspended particles <1% and <1 mm)
- Immediate operating system - Friendly programming
- Automatic temperature compensation (pt100) especially made for measurement by ion selective electrode
- Reactor cleaning after each cycle with water (and diluted acid if necessary) : elctrodes' life is extended and manual reactor cleaning is occasional
- Low maintenance : quick reagent preparation and pump tubing replacement monthly



8810 INDUSTRIAL ANALYSER

CHLORIDE

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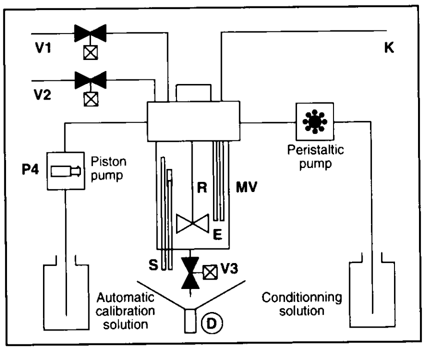
■ Operating principle

The drain valve (V3) and the rinse valve (V1) are opened, the rinsing water cleans the reactor during a programmed lenght of time.

Following the closing of the rinse valve (V1), the sample valve (V2) opens while drain valve (V3) stays opened a few seconds in order to flush any remaining rinse-water droplets with fresh sample solution. Drain valve (V3) now closes and the sample volume is adjusted with the built-in siphon (S).

Conditioning pump (P1) is now actived and operates during a programmed lenght of time. When the programmed stabilizing time is over, the ion selective potential is displayed and allows to determine the concentration C in Chloride (Nernst law E = Eo + Slog C).



■ Specifications

SAMPLE Number of sample stream : 1, up to 6 with sequencer model 8811 Sampling mode : cyclic, programmable Sample temperature : 0-50 ° c Sample pressure : 0.5-6 bar Sample flowrate : 50-300 l/h Flush-water pressure : 1-6 bar Air instrument : 5-7 bar **INSTALLATION** Mounting : 19" panel, wall-mounting unit or free-standing cabinet Sample : tubing 10/12 Flush water : tubing 6/8 Air instrument : tubing 4/6 **ANALYSIS** Analysis cycle : ≈ 5 min. Cycle time : programmable 999 min. max. Units : ppm, ppb, mg/l... programmable	Accuracy : ±2% Reproductibility : <3% Calibration : manual (2 standard solutions), process or automatic with standard additions **OUTPUTS** **Analog outputs :** 0 or 4/20 mA signal galvanically isolated **Alarms :** 3 relays : 1 collective alarm (analyser fault) 2 limits high and low **Control :** 1 sample level detector 1 reagent level detector 1 calibration solution level detector RS232 output Remote ON/OFF

E.M.C. : This instrument conforms to European Directive 89/336/CEE concerning electromagnetic compatibility.

V1 : Rinse valve
V2 : Sample valve
V3 : Drain valve
P1 : Conditioning reagent pump
D : Drain pipe

E : Electrodes (measurement and reference)
M : Stirrer
K : Electrode cable
S : Siphon
MV : Reactor

■ System configuration

8810 CHLORIDE ANALYSER BASIC NSTRUMENT

P/N 368810,31xxx :

8810 CHLORIDE ANALYSER 19" panel mounted includes :

- Titration vessel /Sprinkler
- Measuring CHLORIDE ion selective electrode
- Temperature sensor PT100
- One reagent pump for sample conditionning

OPTIONS

- P/N 368810,71050 : Automatic calibration
- P/N 368810,56000 : Chemical cleaning
- P/N 368810,76000 : Automatic heating device/controller
- P/N 368810,65000 : Manual heating device/controller
- P/N 368810,40000 : Fiberglass enclosure, wall mounting
- P/N 368810,45000 : Steel cabinet, floor mounting

* Product can be configured with different frequency/voltage :

- 220V/50HZ - 240V/50HZ
- 110V/50HZ - 110V/60HZ

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