MODEL CA6 - CHLORIDE ANALYZER

Compact online colorimeter for the automatic measurement of Chloride in water

APPLICATION FIELDS

- Boiler feed
- Cooling water
- Drinking water
- Industrial waste water
- Surface water

ADVANTAGES / FEATURES

Dual compartment enclosure
To ensure complete separation between the electronics and the wet part.

One reagent configuration, reduced running costs
Minimum operating cost, low maintenance solution.

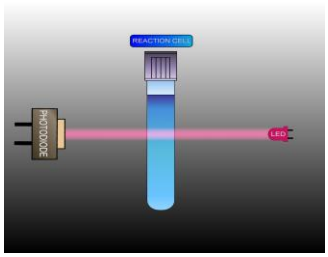
Wide measuring range
The determination ranges of the CA6 Chloride Analyzer vary from 0.2 to 5000 mg/L Cl^- using internal dilution module.

Automatic calibration / validation / cleaning
Validation, cleaning and calibration are standard features which significantly reduce downtime and operator intervention ensuring the most accurate results are obtained.
Free selectable validation, cleaning and calibration intervals.

Color touchscreen user interface
The CA6 Colorimeter is equipped with a graphic touchscreen interface showing measured values and status information. Easy access to menus and functions. Multiple languages. Integrated datalogger with USB download.

Factory tested, ready for installation and operation
Just connect the power, sample, and reagent lines and the analyzer is fully operational.

Multiple streams
Dual streams version available.
External Sequencer, switching up to 4 sample streams.



MEASUREMENT PRINCIPLE

The CA6 analyzer uses an adaptation of the mercury thiocyanate method to measure chloride.

Chloride reacts with mercury thiocyanate and iron based reagents to produce an orange-brown ferric thiocyanate complex. The absorbance intensity is proportional to the chloride concentration in the sample and is measured at 470 nm.

TECHNICAL SPECIFICATIONS

Measured parameter:	Cl^- (ppb, ppm, mg/l).
Measuring principle:	Differential photometric absorbance.
Measuring range:	0.2 to 50 ppm Cl^- for the 26 mm cell, 0.5 to 100 ppm Cl^- for the 16 mm cell; up to 5000 ppm Cl^- with internal dilution.
Reproducibility:	± 0.3 ppm or ± 5%, whichever is greater up to 20 ppm; ≥ 20 up to 50 ppm: ± 0.5 ppm or ± 5%, whichever is greater (26 mm cell) ± 1 ppm or ± 5%, whichever is greater (16 mm cell).
Analysis frequency:	Freely programmable, batch near-continuous analysis.
Cycle time:	6-8 minutes, including conditioning before analysis cycle and rinsing after measuring.
Reaction cell:	Temperature heated
Sample:	Pressure-free from overflow vessel Temperature: 41 - 122 °F (5 to 50 °C) Flow Rate: 80 to 500 mL/min Connection: 6 mm (¼-in.)
Drain:	Pressure-free, atmospheric drain Connection: 12 mm (½-in.)
N° of streams:	1, 2 with integrated switching valve 3, 4 with external sequencer

Dimensions (H x W x D):	23.6 x 15.0 x 8.2 in / 606 x 380 x 209 mm
Weight:	Approx. 44 lbs (20 Kg)
Power supply:	Voltage: 100 - 240 VAC 50/60 Hz standard or 24 VDC (option) Power consumption: max. 80 VA
Outputs:	2 x 4-20 mA outputs for measured data Modbus RTU RS485
Alarms:	4 SPDT programmable potential free relays
Digital input:	Remote start / stop
Operating Temperature:	41 - 113 °F (5 - 45 °C)
Humidity:	10 to 90% non-condensing (indoor use, outdoor installation only possible with protective cabinet or shelter not included)
Installation:	Wall mount (standard), bench top support or panel mount (options).
Ingress Protection:	IP54