

Chlorine measuring cell free chlorine or organic bound chlorine Types CAA2505 – 4...20 mA – 0...2 ppm and CAA2506 – 4...20 mA – 0...10 ppm

Chlorine measuring cells type CAA2505 and CAA2506 are used to measure free chlorine (HOCI and OCI) and organically bound chlorine (to cyanuric acid in the form of trichloroisocyanuric acid or sodium dichloroisocyanurate-bound chlorine) in swimmingpool water or water with same quality.

2. Caractéristiques techniques

Measured variable:

Free chlorine with or without cyanuric acid

Applications :

Swimmingpool water or similar quality (Without surfactant)

Measurement ranges:

pH range :

Temperature using range: Storage and transport temperature:

Cyanuric acid Cross-sensitivity:

Maximum pressure: Supply flow:

Start time: Total stability for definitive calibration

Membrane cap life time:

Electrolyte : Matériau du capuchon :

Electrode shaft material: Electrical protection type:

Supply voltage: Output signal:

3. Electric connection

No sensitivity, if > 5 mg/l of cyanuric acid

3 bars mini: 20 l/h Maxi: 100 l/h Recommanded: 30 l/h

0,02 - 2 ppm, ref. CAA2505 0,1 - 10 ppm, ref. CAA2506

5 - 45 °C (Internal controlled)

5,5 - 9,5 pH

+5 to +50 °C

First calibration after 2 H after 24 H

Currently 1 year (according to water quality)

KI, réf. CAA2511 PVC bleu, réf. CAA2509

> Black PVC I P 65

16-24VDC 4-20mA (not isolated)

Turn the upper part of the sensor a quarter of a turn anticlockwise and remove it. Loosen the PG-7 threaded connector and guide the 2-lead cable through, providing a spare 5 cm of bare cable inside the sensor. Connect the cable to the terminal: 1 = plus, 2 = minus. Tighten the PG-7 threaded connection. Push the upper part of the sensor right into the housing and turn it clockwise as far as it will go. After you've locked the PG nut, insert the cell measurement into the measuring housing.



on: The probe output signal has not galvanic isolation

4. Assembly/installation



Don't touch the membrane or the electrodes. Risk of definitive damage.





Chlorine measuring cell free chlorine or organic bound chlorine Types CAA2505 – 4...20 mA – 0...2 ppm and CAA2506 – 4...20 mA – 0...10 ppm

Depressurise the system before assembling the probe. Close stop valves in front of and behind the in-line probe housing. Take care with any handling of chemicals products or chlorine liquids.

4.1 Filling the cap with electrolyte

Open the electrolyte bottle (KI), place the electrolyte bottle nozzle completely over the membrane cap and fill it slowly with electrolyte avoiding air bubbles. At the same time, pull the bottle back steadily. The cap is completely full when the electrolyte can be seen at the low level of threading.



Avoid air bubbles when pouring the electrolyte. The membrane cap must be used after cleaning. (See technical maintenance manual)

Place the electrode shaft on the full membrane cap in a vertical position. Turn the membrane cap by hand as far as it will go.

In first time excess air then electrolyte will escape through a hole below the rubber seal in the groove of the membrane cap while you are turning it. Wipe away any electrolyte with a soft paper towel or other similar item.

4.2 Placing the cell into probe housing

Before the assembly in probe housing, pass the O ring around the shaft, below the washer on membrane side. Then slip the ring of tightening over the stem. Block the retaining nut until the O ring ensures the sealing. The correct depth of assembly of the probe is determined by the ring of tightening.

5. Calibration

A zero point calibration is not necessary. The slope calibration is performed by the chlorine content according to the DPD method using an appropriate instrument for measuring chlorine. Set the controller/measuring device to the value obtained in accordance with the operating instructions.

In order to carry out a correct calibration, the probe must be used in probe housing with recommended flows (see technical characteristics).

Repeat calibration at regular intervals. Repeating period is function of the using probe. Use currently 3 or 4 weeks for the water treatment processes.



In all case, after changing the membrane, a slope calibration must be performed.

6. Connections cable identification

1: White wire 2: Blue wire

7. Accessories

Bleue membrane : ref. CAA2509 Electrolyte (KI) : ref. CAA2511 Fixation kit 1" : ref. CAA2510 Maintenance kit: ref. CAA2549 Transport holding: ref. FTH2500

User notice for free chlorine cells type CAA2505 and CAA2506

Filling





2