

10.1 Chlorine

The calibration of the chlorine is done on 2 points :

- zero point
- hand held measurement

In addition to the calibration, we can also choose:

- Reset calibration (restores all calibration settings to factory settings)

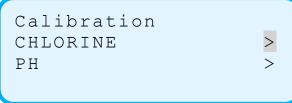
10.1.1 Zero calibration

Now take the following actions:

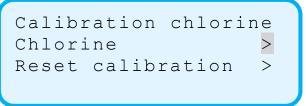
1. For a zero calibration go to main menu with **[X]** and choose with **[▼]** the menu option **[Calibration]** and confirm with **[**↓]



2. Choose [Chlorine] and confirm with [\leftarrow].



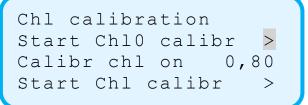
3. Choose again for **Chlorine** and confirm with met [\leftarrow]:



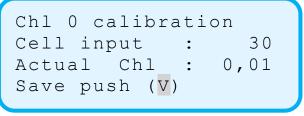


SPI 170 AMP

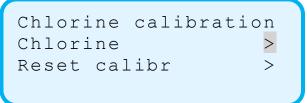
4. Choose [Start Chl 0 calibration >] and confirm with [\leftarrow]



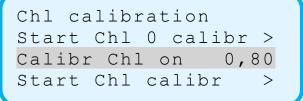
- 5. Shut down the water supply by closing the supply valve and the return valve. SPI Controller will now give a circulation error with acoustic signal.
- 6. Wait for 5 minutes. The chlorine value will decline and stabilize . Then push on [**V**] to confirm the new zero point. The calibration of the zero point is now ready.



7. After confirmation of the zero point the following display will appear. Choose again the option **Chlorine** and confirm with [⊷].



- 8. Open the water supply valve and the return valve and regulate the flow on 35I/hour
- 9. Go to **Calibr Chl on** and confirm with [-4].

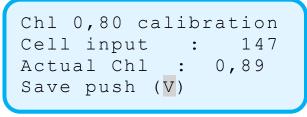


10. The following display will appear, Here the value to be calibrated can be entered

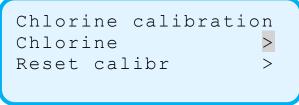
	SET	VALUE
MAX:		5.00
MIN:		0.10
SET:		[0.80]



- 11. Take a water sample en measure the free available chlorine with your hand held meter.
- Change the SET value with [▲] and [▼] in the value which is determined by hand measurement and confirm with [V]
- 13. The value entered in point 12 must still be completed so that the controller actually takes over this value. Choose [Start CHL calibration].



- 14. The controller shows at **Actual Chl** the last measured value. Check the stability of the **Actual Chl** value and push on [**V**]. Now the value measured with the hand held meter is taken over (see step 12). The calibration has now been carried out.
- 15. De controller is going back to the following display:



- 16. Go back to the main menu with **[X]** and confirm with **[**[↓]**]** to go to **Overview**.
- 17. Overview displays the new value. This value must be the same as the value measured with the hand held meter at point 12.

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Calibration can not be performed at a measurement less than 0.20 mg / I. Make sure the chlorine value in the basin is more than 0.20 mg / I and then perform the calibration.

Remark: When using a new electrode or in case of a high chlorine level it is possible that the waiting time is more then 5 min for the zero point calibration. When it is not possible to get a correct zero point calibration than fill up the chlorine cell with chlorine free tap water.

Wait after filling about 10 sec. and do the zero calibration as described above again. When chlorine tablets (chlorine 60 or 90, chlorine with isocyanurate) were used, the unit can not be precisely calibrated

The controller can always be put back to factory settings by selecting the "reset calibration" option.

Error messages:			
Texst on display	Description	Possible solution	
EL1	Electrode error, low calibration point < 4 μ A		
EL2	Electrode error, low calibration point > $30 \mu A$		
EL3	Electrode error, high cailibration point < 44 μ A		
EL4	Electrode error, high calibration point > 400 μ A		
noC	Chl level to low to do a calibration < 0,20 mg/L		



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