



# Technical Note 104

## Free Chlorine Probe Maintenance

### Maintenance Intervals

- Change the electrolyte every once a year.
- Change the membrane cap once a year.

### Calibration

- When the chlorine is stable, take a DPD reading.
- From the menu, select the chlorine sensor tile and press the 'Calibrate' button.
- Using the up and down arrows set the correct chlorine level.

### Cleaning the Sensor

Do not wipe or scrub the membrane. Flush the membrane with flowing water. If this is insufficient to clean the membrane, then replace the membrane.

### Maintaining the Sensor



#### Caution

Before you unscrew the membrane cap, slide the seal up or down the membrane cap to expose the vent hole. This is to allow air to enter, otherwise the membrane will be destroyed by the vacuum created.

Unscrew the membrane cap and remove from the sensor. The gold tip of the sensor should be bright and shiny. If it is not, clean the gold tip with the blue plastic abrasive sheet supplied. With a minimum amount of force, slide the probe along the dull side of the paper.



#### Caution

Never touch, clean, or polish these areas of the probe.



#### NB. Read the electrolyte MSDS sheet.

Fill the membrane cap to the top with the electrolyte. Be careful to ensure that there are no bubbles - pouring at an angle reduces the chance of this happening.

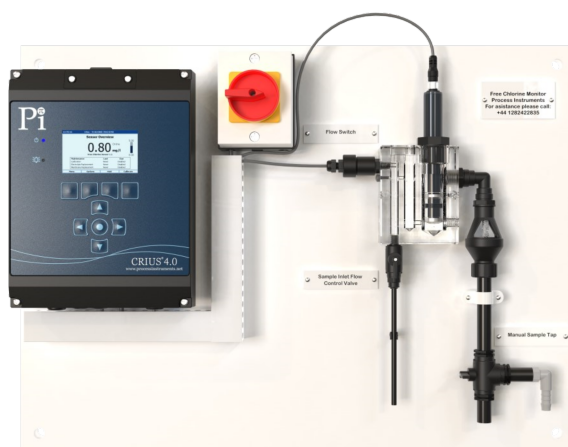
Vertically lower the probe into the filled membrane. Do not cover the vent hole. Screw the membrane onto the sensor until there is no gap. Excess electrolyte will escape through the vent hole in the membrane cap. Do not cover this vent hole with your finger.



**Warning: Electrolyte may spurt from the vent hole. Excess electrolyte, or electrolyte on your skin or in your eye, should be washed off immediately with water. The electrolyte contains potassium halide.**

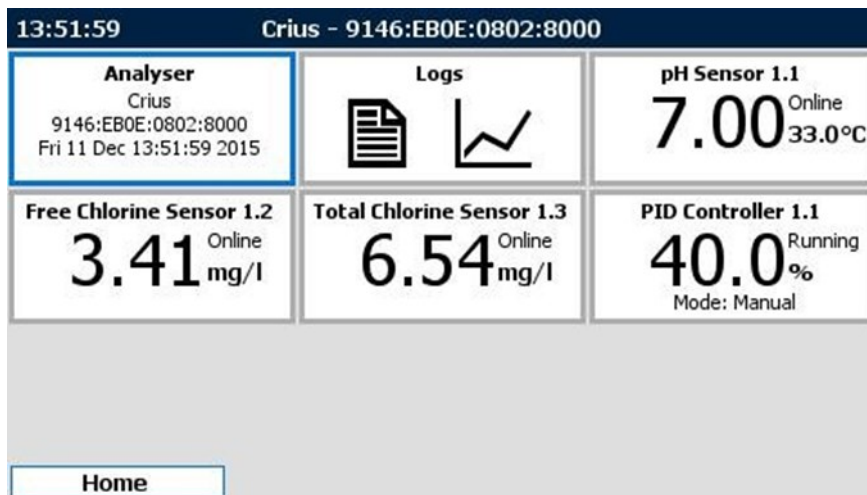


Carefully remove any excess electrolyte solution from the sensor and check the end of the membrane for bubbles. Do not rub or wipe the membrane. Slide the seal back into the groove, covering the vent hole. Wash off the excess electrolyte with water. Initial polarisation is up to 2 hours prior to calibration. Calibration should be repeated after 24 hours.



For a video demonstration, please view on YouTube: Free Chlorine Sensor from Pi (HaloSense) - Sensor Preparation

## Menu Images



Menu Tiles



Chlorine Screen Overview