CHEMTROL AUSTRALIA PTY LTD
ABN: 95 626 805 301
Unit 19-20, 16 Narabang Way, BELROSE 2085 NSW
www.chemtrol.com.au

Calibration Options for pH and PPM sensors

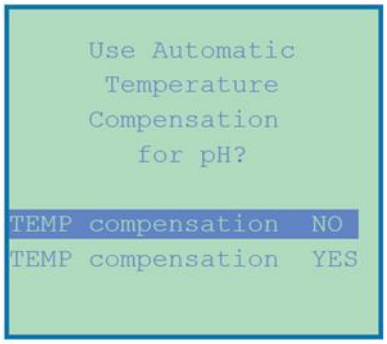
CHEMTROL® sensors offer the flexibility of calibration with either a 1, 2, or 3-Point calibration method, which adjusts for origin, slope, and curvature. Our user-friendly menu enables operators to complete a 1-point calibration in as little as 10 seconds. Please note that, for a quick calibration, it is essential not to remove the sensors from the by-pass line assembly.

You can perform sensor calibration using a PC, laptop, or any mobile device.
The most convenient approach is to utilize the CHEMTROL® App, available on both Android and Apple devices.

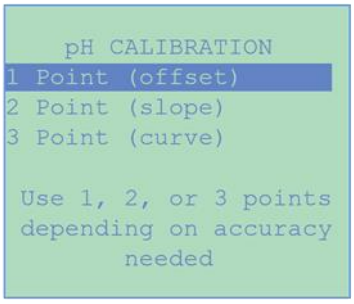
pH calibration

One-point calibration – normally suitable for pH, TDS/Temp sensors:
Temp compensation:

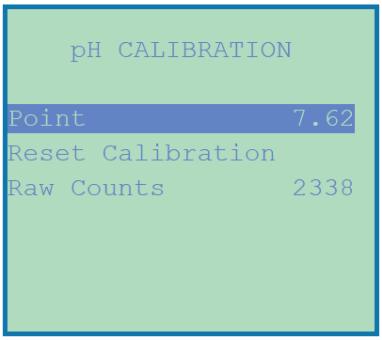
- If you have an outdoor pool or application, please select 'YES' so that the calibration method can account for the current ambient temperature.
- If you have an indoor pool/application – please choose NO



Please use the one-point (Offset)



Navigate to the calibration menu by pressing the right arrow on your menu



Adjust the calibrated number using the right arrow to align it with the measurement meter, then press OK

Performing a two and three point calibration necessitates the use of pH buffer solutions.
Should you prefer to calibrate using this method, please don't hesitate to call our support team for assistance.

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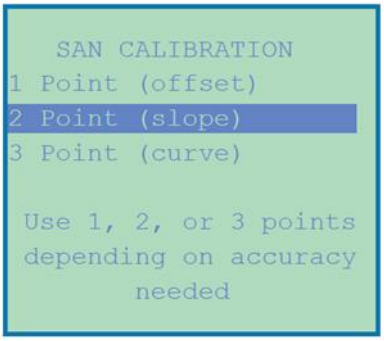
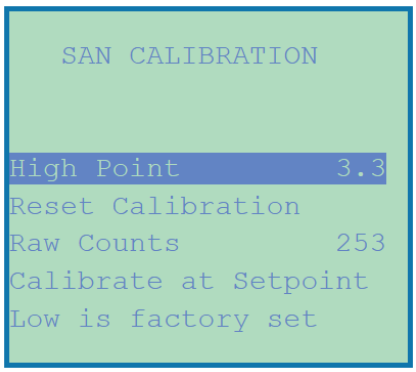
PPM calibration

Please note that 'SAN' stands for sanitizer. The calibration of the PPM sensor operates on the 4-20mA method, and as a result, you'll find options for both low and high points in the menu.

Utilize the two-point calibration method, the low point (4mA) is factory-set and doesn't require additional calibration.
Focus on the high point (20mA) for slope calibration.



Note, in certain controllers, operators may have the option to adjust the low point. It is crucial to avoid modifying this low point, as doing so could compromise the entire calibration process.



Adjust the calibrated number using the right arrow to align it with the measurement meter, then press OK

Raw counts

The raw count is a proprietary Chemtrol method designed to signal to the operator when the cap and gel need replacement. Upon installing a new sensor, raw counts should be relatively high, indicating the integrity of the electrolyte / electrolyte gel.
Over time, typically between 6 to 18 months, degradation of the electrolyte and gel occurs, necessitating replacement. Therefore, when the raw counts registers less than 100, while the reading remains around 3.0-3.5 ppm, it signifies that the cap and gel should be replaced.

Furthermore, the raw counts serve as a guide for the operator in calibrating the sensor.
For instance, considering an example with 253 raw counts, the low point can be set as low as 2.5ppm, and the high point in this case, should not exceed 5.0 ppm which is double of the existing raw counts displayed.