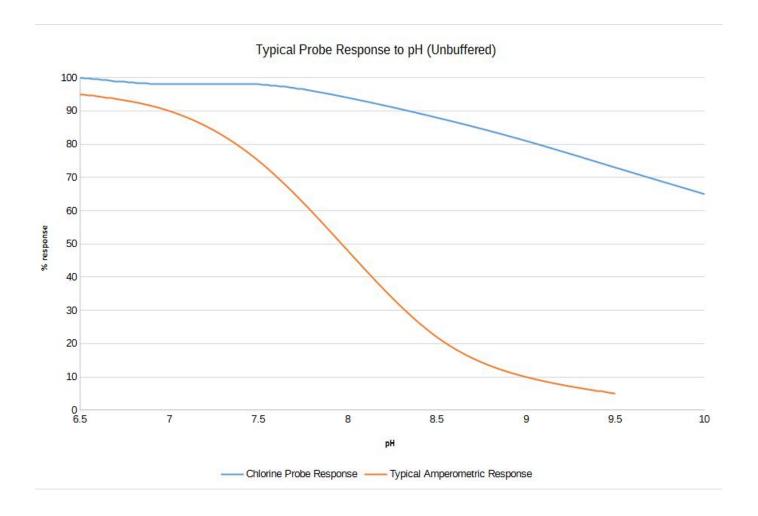
How to interpret the pH graph

The graph below shows how sensitive the free chlorine sensor is to pH.

The Free Chlorine sensor shows some susceptibility to pH variations above pH 7.

As the pH increases then susceptibility increases.

Very few people need to buffer their chlorine probe. Whether they do or not will depend on what errors are acceptable to them.



eq. at pH 7

pH varies by +/-0.1pH

0.5ppm would vary by +/- 0.02 ppm

1ppm +/- would vary by +/- 0.02 ppm 3ppm +/- would vary by +/- 0.06 ppm

eq. at pH 8

pH varies by +/-0.1pH

0.5ppm would vary by +/- 0.02 ppm 1ppm +/- would vary by +/- 0.04 ppm 3ppm +/- would vary by +/- 0.12 ppm

eg. at pH 9

pH varies by +/-0.1pH

0.5ppm would vary by +/- 0.03 ppm 1ppm +/- would vary by +/- 0.06 ppm 3ppm +/- would vary by +/- 0.18 ppm

pH varies by +/-0.5pH

0.5ppm would vary by +/- 0.02 ppm 1ppm +/- would vary by +/- 0.04 ppm 3ppm +/- would vary by +/- 0.12 ppm

pH varies by +/-0.5pH

0.5ppm would vary by +/- 0.05 ppm 1ppm +/- would vary by +/- 0.1 ppm 3ppm +/- would vary by +/- 0.3 ppm

pH varies by +/-0.5pH

0.5ppm would vary by \pm 0.07 ppm 1ppm +/- would vary by +/- 0.14 ppm 3ppm +/- would vary by +/- 0.42 ppm

pH varies by +/-1pH

0.5ppm would vary by +/- 0.05 ppm 1ppm +/- would vary by +/- 0.1 ppm3ppm +/- would vary by +/- 0.3 ppm

pH varies by +/-1pH

0.5ppm would vary by +/- 0.08 ppm 1ppm +/- would vary by +/- 0.15 ppm 3ppm +/- would vary by +/- 0.45 ppm

pH varies by +/- 1pH

0.5ppm would vary by +/- 0.16 ppm 1ppm +/- would vary by +/- 0.30 ppm 3ppm +/- would vary by +/- 0.90 ppm

Notes

- These figures are approximate and may vary from probe to probe.
- The effect on the sensor is predictable so that when the pH goes up the probe signal goes down and vice versa.
- When the pH is restored the probe will return to the original value.
- The normally accepted accuracy of a DPD test is +/- 0.06ppm.
- If the free chlorine sensor pH susceptibility is unacceptable to your process then there are CO, and Acetic Acid buffers available, or pH compensation using a pH sensor.

Please ask your sales representative for details.

DONT FORGET! 98% of our customers dont use buffers and are very happy with the performance of their chlorine probes.









