

ANB Sensors presents a solid state, calibration free pH sensor

Allowing low cost, low maintenance sensing

Benefits and Results

- No calibration required
- Easy to use
- No storage issues (stored wet or dry)
- Onboard QAQC for smart sensing
- Target Accuracy: +/- 0.02 pH
- pH Range: 2-10
- Measurement Frequency: 10 secs



The Challenge

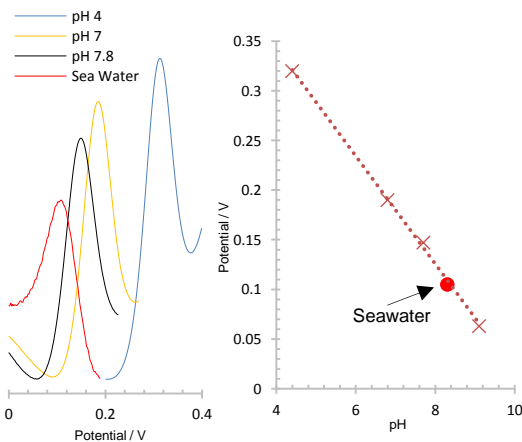
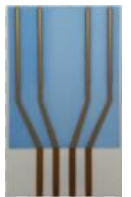
Today's sensors do not meet the requirements for widespread reliable remote water monitoring. They have high maintenance overheads, are fragile and require frequent calibration to ensure accuracy. Most importantly they are unable to cope with low-salt, and/or low-buffered water.

The Solution

ANB Sensors Ltd. have identified a disruptive technology enabling cost effective, accurate and autonomous measurement of real-time pH without the need for frequent calibration.

Our innovative pH sensor is based on a voltammetric electrochemical technique which utilizes a pH responding molecule bound within a solid state matrix. This is combined with a novel means of verifying the performance of the reference electrode through an additional in-situ electrochemical measurement, making the sensor calibration free.

Research at ANB Sensors laboratories has been conducted to optimize the chemistry and longevity of the sensor.



About ANB Sensors

ANB Sensors are a Cambridge, UK technology company providing innovative solutions for today's chemical sensors. In August 2017 they began a partnership with National Oceanographic Centre to develop this technology.