

TOUGH. ACCURATE. AUSTRALIAN.

# AQUA Series

## Calibration Guide



### Quick Start

1. Unbox the meter and sensors
2. Connect the sensors to the meter
3. Remove any wetting caps from the sensors (pH and ORP)
4. Turn on the meter, calibrate and start testing

An asterisk (\*) on the display indicates that parameter is not calibrated. When calibration is successfully completed, it will change to a decimal point (.)

### Temperature Calibration

1. Place the Electrical Conductivity (**EC**), Dissolved Oxygen (**DO**) or Temperature sensor into a beaker of room temperature water, alongside an accurate thermometer. Stir the sensor and the thermometer gently to ensure an even temperature throughout the beaker.
2. Press **Mode**: to cycle through the modes until you get to Temp Mode. Press **Cal**: to begin calibrating.
3. When the reading has stabilized, press the Up / Down keys to adjust the temp reading.
4. **Cal**: to calibrate.

### pH Calibration

1. Remove the wetting cap from the pH sensor. Rinse the pH and EC/DO/Temp sensors in distilled water and blot dry. Ensure temperature has been calibrated.
2. Place pH and EC/DO/Temp sensors into a small sample of fresh pH7 buffer, so that the bulb and reference junction are both covered.
3. Press **Mode**: to cycle through the modes until pH is at the top of the screen.
4. When the reading has stabilised, **Cal**: to calibrate.
5. Rinse the pH and EC/DO/Temp sensors in distilled water and blot dry.
6. Place both sensors into a small sample of fresh pH4 buffer, so that the bulb and reference junction are both covered.
7. When the reading has stabilised, **Cal**: to calibrate.

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## Conductivity Calibration

1. Rinse the Conductivity sensor in distilled water. Shake off as much water as possible. Blot the outside of the sensor dry. Do not blot the sensor plates.
2. **Zero Calibration**  
Leave the sensor dry and in the air. Press **Mode:** until the Conductivity reading is at the top of the screen.
3. When the reading has stabilised at or near zero,  
**Cal:** to calibrate.
4. **Standard Calibration**  
Place the sensor into a sample of fresh Conductivity standard so that it is immersed at least above the vent hole.
5. When the reading has stabilized,  
**Cal:** to calibrate.



For the full handbook, further calibration notes & troubleshooting go to [tps.com.au](https://tps.com.au)

## Dissolved Oxygen Calibration

1. Rinse the Dissolved Oxygen sensor in distilled water and blot dry. Ensure that temperature has already been calibrated.
2. **Zero Calibration**  
Place the sensor into an oxygen-free solution. This solution may be prepared by dissolving 2g of Sodium Sulphite in 100mL of distilled water. Press **Mode:** to cycle through until the oxygen reading is at the top of the screen  
Allow the reading to stabilise at or near zero. This may take 2-3 minutes.
3. **Cal:** to calibrate.
4. Rinse the dissolved Oxygen sensor in distilled water and blot dry.
5. **Air Calibration**  
Hang the Dissolved Oxygen sensor dry and in the air. The tip of the sensor should be pointing downwards.  
Allow the reading to stabilise.  
This may take up to 5 minutes.
6. **Cal:** to calibrate.