

Hanna Phosphate LR Checker Calibration Guide

It is recommended that Hanna devices sets are calibrated once a year, or when erroneous values are found. This is essential to ensuring the validity of WQMN data.

Each calibration set contains:

- Cuvette A for zero ppm phosphate (labelled on lid)
- Cuvette B for adding reagent (labelled on lid)
- Phosphate reagent pack
- You will also need a timer

Tips for accurate calibration:

- Read the instructions before performing calibration
- The cuvettes have an extra seal than usual ones which also needs to be removed with the cap
- Make sure all the phosphate reagent is inserted into Cuvette B
- Ensure all reagent is dissolved, shaking gently to avoid creating bubbles
- Clean each cuvette with lint-free cloth before use thoroughly. Any dust or smudges will interfere with the result
- Recommended environmental conditions are 25 degrees, so store inside in a warm location

Step-by-step instructions:

1. Prepare Cuvette B
 - a) Unscrew the cap and add the contents of one pack of phosphate reagent
 - b) Replace cap and shake gently (avoiding creating bubbles), until reagent is completely dissolved.
 - c) Set a timer for 3 minutes before use
2. Perform the validation
 - a) Turn the checker on
 - b) Insert cuvette A into the checker and close the cap
 - c) press the on/off button. When the display reads 'add C2', the checker is zeroed
 - d) Remove Cuvette A
 - e) Insert prepared Cuvette B
 - f) Press AND HOLD on/off button
3. Validation is complete when the display shows the target standard value of $1.00 \pm 0.08\text{ppm}$
4. Rinse out the cuvettes and keep as spares.
5. Email the result of calibration and date performed to aap@anglingtrust.net

What to do if calibration isn't within range?

If the reading falls outside of ± 0.08 of 1.00ppm , then the device has failed calibration. It will need checking by the Hanna Instruments team.

- Please contact aap@anglingtrust.net for further instructions.
- We will send you Hanna's priority returns form, and get in touch with Hanna to notify them that a device in use by the WQMN has failed calibration.
- Hanna's team will take a look at the device, identify and fix any issues causing the failure.

Hanna MR Ammonia Checker Calibration

Each calibration set contains:

- Cuvette A for zero ppm ammonia (labelled on lid)
- Cuvette B for 6.00 ppm ammonia (labelled on lid)

Tips for accurate calibration:

- Read the instructions before performing calibration
- Do not open either of the cuvettes
- Clean each cuvette with lint-free cloth before use thoroughly. Any dust or smudges will interfere with the result
- Recommended environmental conditions are 25 degrees, so store inside in a warm location

Step-by-step instructions:

- Thoroughly wipe Cuvette A
- Turn on the device
- At the Add C.1 prompt, insert Cuvette A
- Press the on/off button
- At the Add C.2 prompt, insert Cuvette B
- Press AND HOLD the on/off button
- Validation is complete when the display shows ± 0.25 of 6.00ppm
- Email the result of calibration and date performed to aap@anglingtrust.net

What to do if calibration isn't within range?

If the reading falls outside of ± 0.25 of 6.00ppm, then the device has failed calibration. It will need checking by the Hanna Instruments team.

- Please contact aap@anglingtrust.net for further instructions.
- We will send you Hanna's priority returns form, and get in touch with Hanna to notify them that a device in use by the WQMN has failed calibration.
- Hanna's team will take a look at the device, identify and fix any issues causing the failure.