

Envirodata RG50 Rain Gauge Cleaning Guide



Things you will need:

- 5mm Allen key
- Flat blade screwdriver
- Water
- Cleaning brush
- 10mm spanner
- Micro-fibre cloth

Step 1: Unplug the rain gauge from the weather station. This will ensure you don't get any false readings for rainfall during the cleaning process.

The rain gauge will typically be plugged into the **Green** number 5 port on the weather station.

To remove, simply twist the locking cap on the Conxall plug anti-clockwise and remove the plug from the weather station.

Please note sensor port for re-connection.

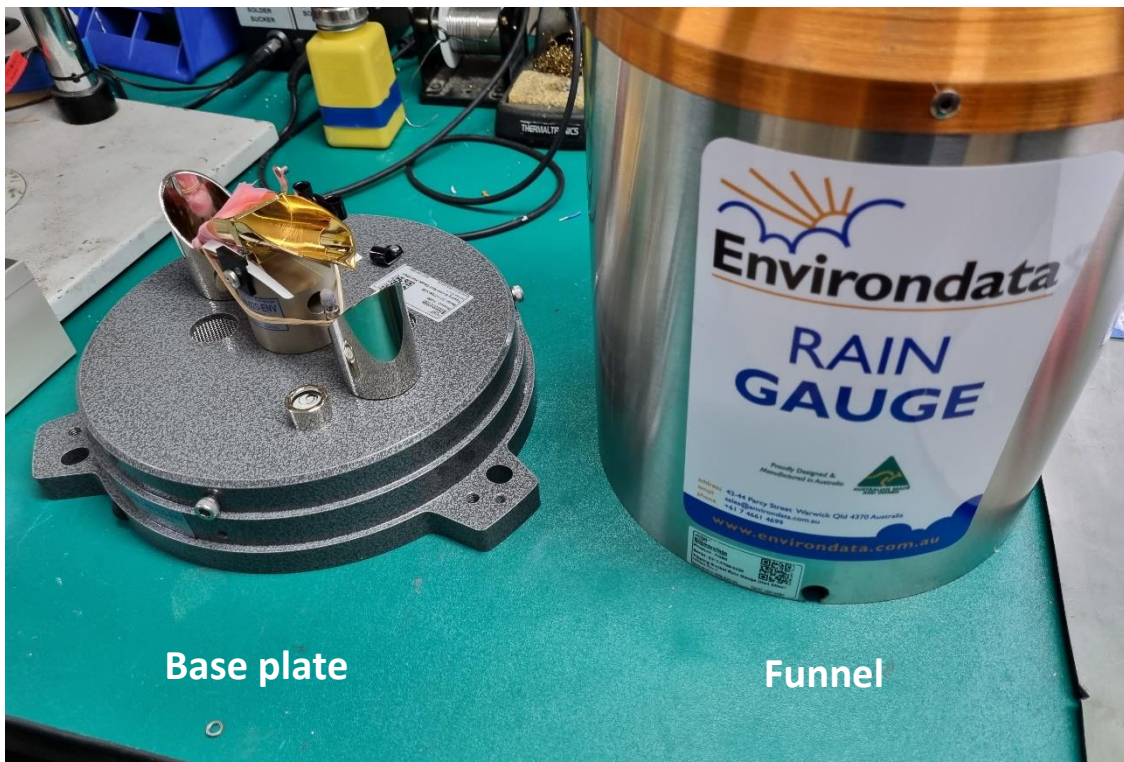


Conxall Connector

Step 2: Using the 5mm Allen key, loosen the 3 bolts at the base of the funnel bucket.



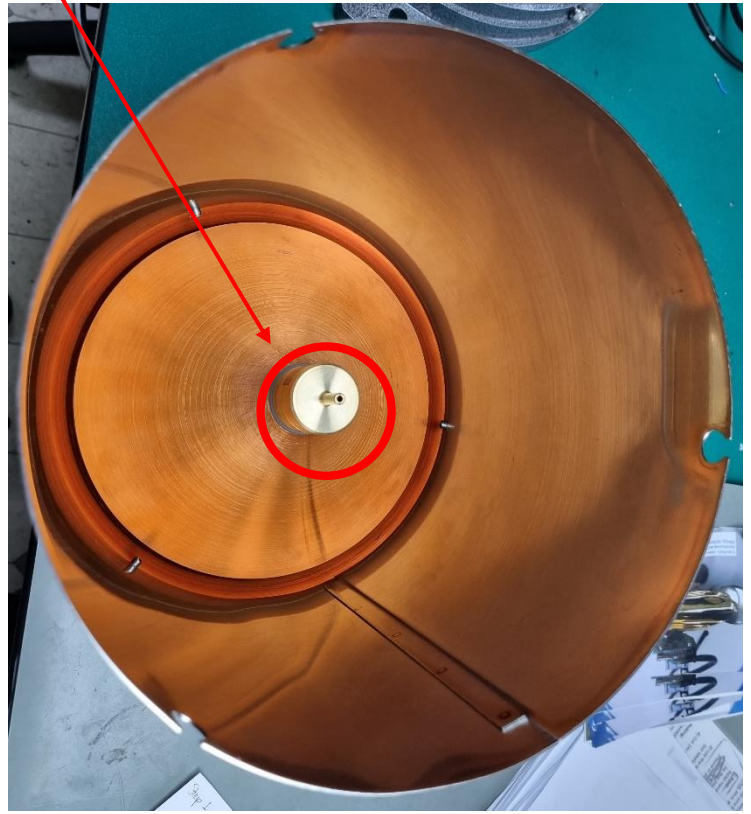
Step 3: Remove the funnel from the rain gauge base.



Step 4: underneath the funnel you will find the syphon.

Using your hand, unscrew the syphon anti-clockwise and remove from the funnel.

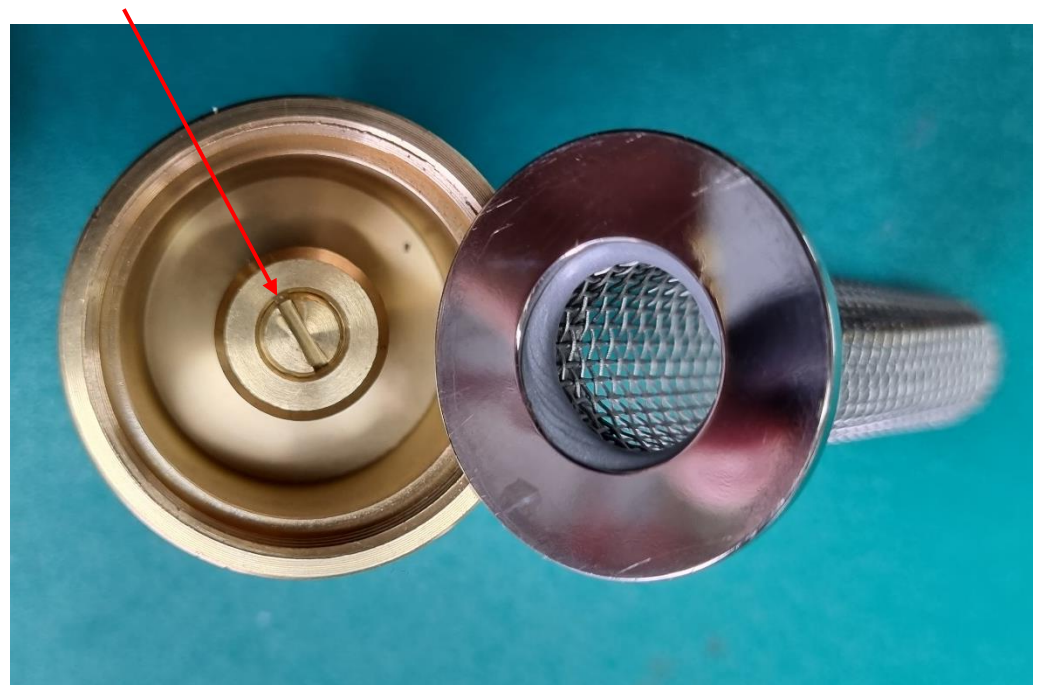
Please note that the mesh filter will also come off with the syphon.



Step 5: Disassemble the syphon

using the flat blade screwdriver

on the screw in the centre of the syphon.



Step 6: Now that you have disassemble all the components, using a cleaning brush and some water, give everything a thorough clean. *Do not use any cleaning detergents/solvents for this process*



Step 7: Give the funnel a thorough clean using water and brush or a rag. Ensure you remove all dirt and bird droppings.

Do not use any cleaning detergents/solvents for this process



Step 7: Using a microfibre cloth and some water, clean the gold tipping buckets on the base plate.

Do not use any cleaning detergents/solvents for this process



Step 7: Inspect the mesh drain holes to ensure they are not blocked. If they are blocked, use your cleaning brush and some water to clear blockage.

If blockage is difficult a syringe filled with water or Compressed air will help with this process

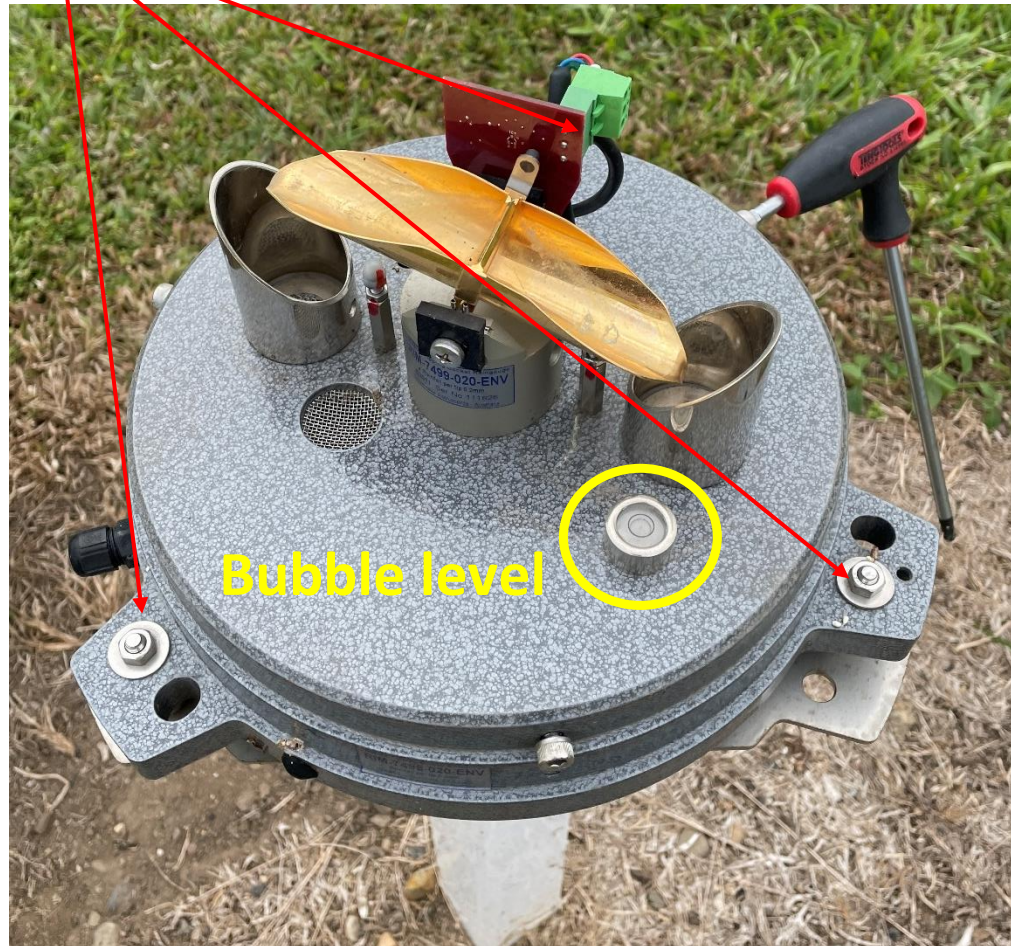


step 8: Check that the rain gauge is level.

The operation and calibration of the rain gauge relies on the instrument being perfectly level therefore it is very important that the rain gauge levelling is checked and adjusted if necessary.

Start by checking the bubble level on the base plate of the rain gauge. If the bubble is not in the centre, it will need to be adjusted.

To adjust the level of the base plate, loosen the three (3) 10mm nuts that fix the base plate to the mounting plate.



Once you have loosened these nuts, you can adjust the base up and down with the levelling nuts beneath the base plate.

When you have the base plate level, re-tighten the three (3)x 10mm nuts on top of the base plate that fix the rain gauge in place.

Step 10: Re-assemble the syphon and re-attach it to the funnel. This only needs to be hand tightened.

Please note to remember the mesh filter goes in first



Step 11: Carefully place the funnel bucket back on the base plate. Then, using the 5mm Allen key, tighten the 3 bolts at the base fixing the bucket into place.



Step 12: Reconnect the rain gauge plug into the weather station.

Ensure that you use the **GREEN** number five (5) port or the sensor port you removed it from.



Step 13: Tip a small amount of water through the rain gauge.

When doing this please note the number of times the buckets tip, by listening for each tip
Then, check your the Weathermation page to ensure the rain gauge is registering the rainfall.
Each time the buckets tip should count as 0.2mm of rainfall on Weathermation.net.au

- **Tip, connecting the rain gauge will automatically record a single 0.2mm tip.**

Complete! Congratulations, you have successfully cleaned your rain gauge.

If you have any questions with this process, please don't hesitate to call Envirodata Weather Stations on 07 4667 4699.