How to connect a Hydreon rain sensor[1]
to a CloudWatcher equipped with a capacitive rain sensor
(for CloudWatchers from serial number 1554)

2 options:

    A) If you **don't have** the Hydreon rain sensor.
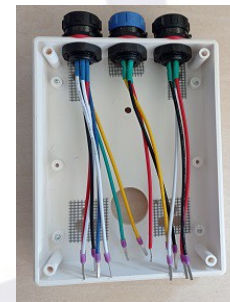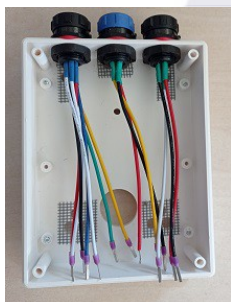   B) If you **already have** the Hydreon rain sensor.

Supplied:

A) If you **don't have** the Hydreon rain sensor
    1) Bottom part of the CW box – adapted for the Hydreon sensor
    2) Hydreon sensor CW-ready

B) If you **already have** the Hydreon rain sensor.
    1) Bottom part of the CW box – adapted for the Hydreon sensor
    2) 3 wire cable with a special terminal block
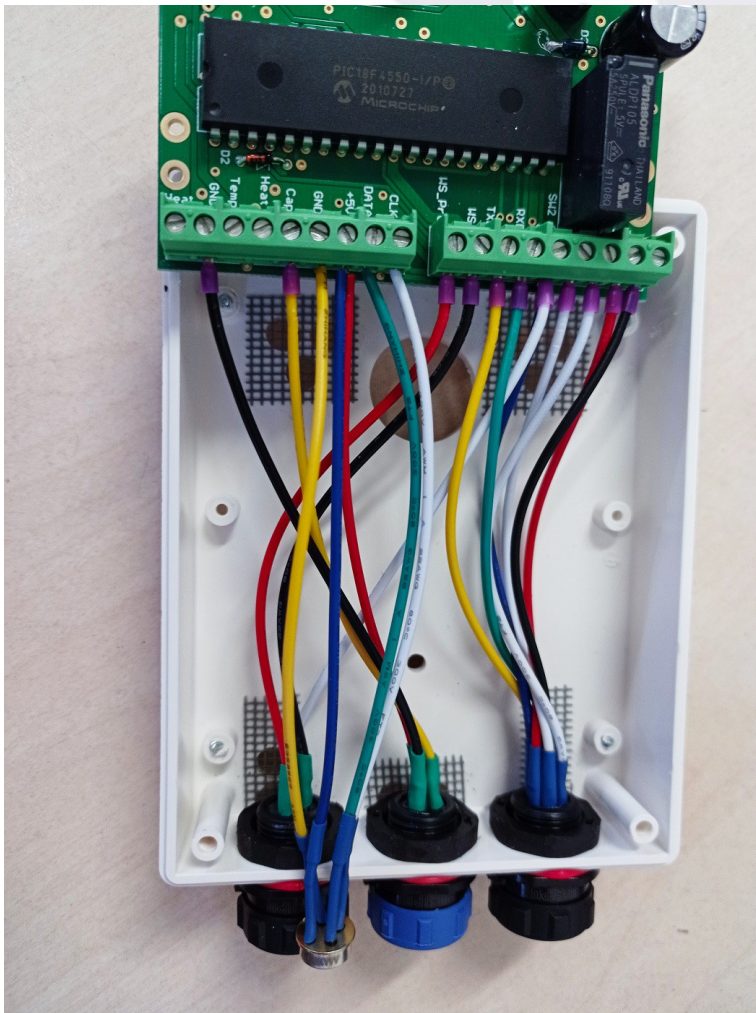   3) PCB to connect to the Hydreon sensor

Steps:

    0)   **As a precaution, take a picture of the PCB and cables with your smartphone. May come in handy in case of troubles.**

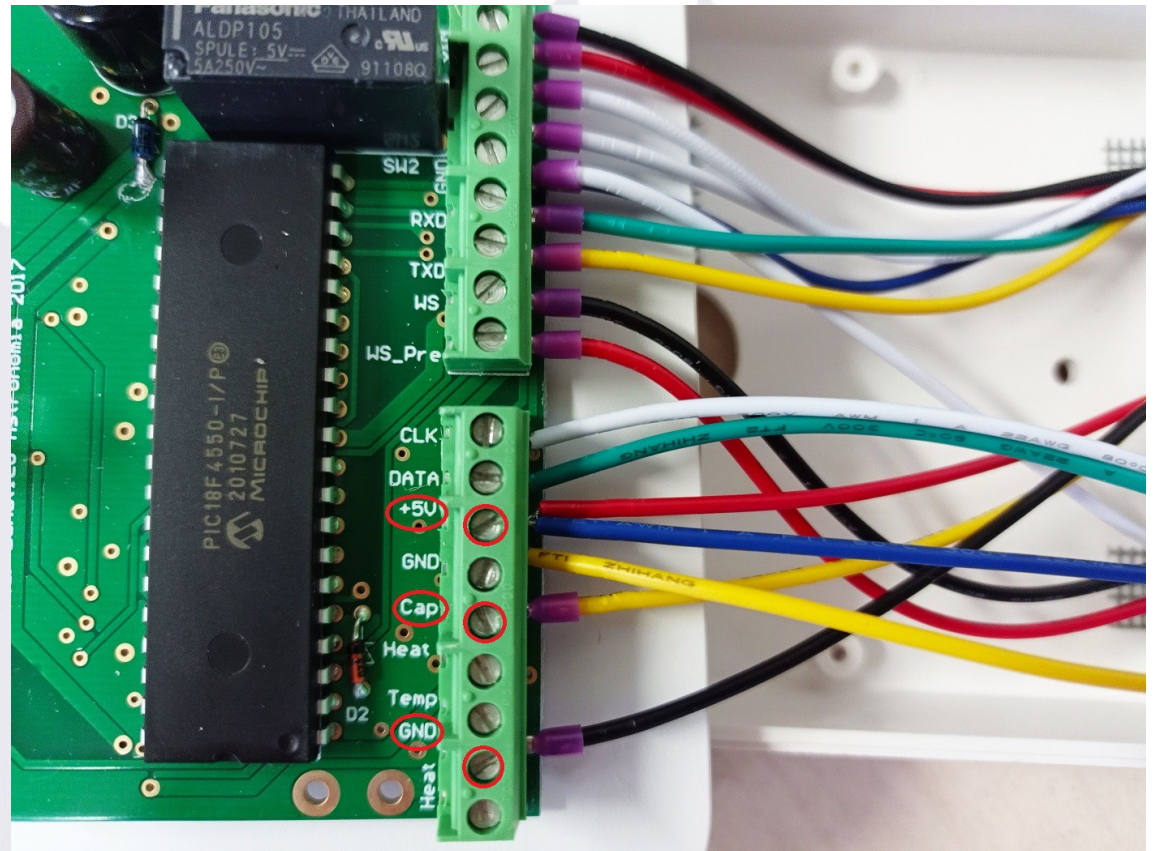1 For **RG-9** and **RG-15** Hydreon (not for RG-11 model)

A) If you don't have the Hydreon rain sensor
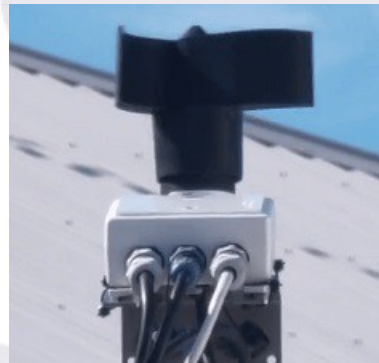
To connect the PCB to the supplied base

1. Disconnect all cables from the original CW
   i. If your unit has an external humidity sensor, you'll have to remove it and reattach to the new box.

2. Place the PCB in the box, fix with 2 screws, and reconnect all cables as in the image below:

3. Cut and discard the capacitive rain sensor cables – cut them short to avoid them touching the board.

   i.   If you removed your external RH sensor, you'll have to attach it again now.

4. The new Hydreon rain sensor uses the follow connections:

   i.   Red cable 5V (in the IR sensor / RH sensor block) – so you may end with up to 3 cables in the +5V terminal.
   ii. Yellow cable … Cap
   iii. Black cable … GND

5. Close the box – your Hydreon rain sensor is ready to be connected to the IP68 socket.
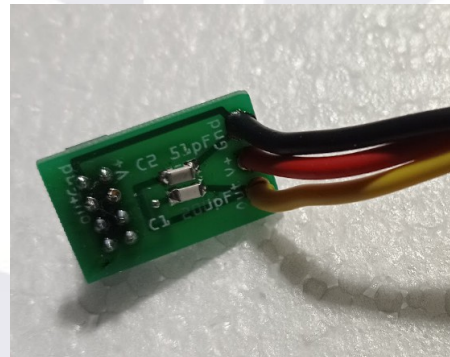
B) If you already have the Hydreon rain sensor (RG-9 or RG-15), there's an extra step.

1. You have to get it ready for the CloudWatcher.

    i.   Remove the 4 bottom screws of the rain sensor.
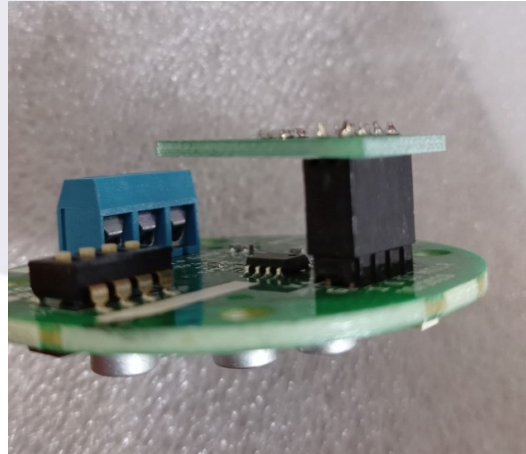   ii. Insert the suuplied 3-wire cable using the central hole

    iii. Solder the supplied board to the cables as in the image

- Black wire … GND
- Red wire … V+
- Yellow wire … OUT

2. Connect the PCB to the Hydreon board as in the image

3. Close the Hydreon again – it is now as if it was supplied by Lunatico.