General

* WiFi led on HVAC – Can we light it when connected to transponder? (Yes)
* Include remote On-Off? (Yes)
* 3D-printed clip or bracket to tightly install sensor in a defined fixed position. Readings vary depending on where and how the sensor is oriented towards the light source -> fixed position will provide more consistent readings across multiple sensors. (Okay)
* We’re currently using jumper connectors, but the PCB has two STEMMA QT connectors – could these be used instead / is it advisable / or are they for a different purpose? May this is irrelevant, I’m just asking in case it makes the integration into the HVAC units easier. (Lets work on it)

HMI

* rechargeable battery with USB loading port for mobile use? (I do not understand ? )
* 3D-printed desktop stand (with charging dock) and/or wall bracket. (Why ? )
* Display should probably be used in portrait orientation rather than then landscape to list higher number of devices. (Possible).
* Does it support “swipe” to page from left to right? This is merely to understand the limitations we have for displaying information on one or more screens/pages. (We can apply Multiple Pages, But not smooth as iPad 😁)

Other (this is pending while we check on possible external partners, e.g. Kaiterra).

* Add additional IAQ monitoring sensors outside the device and air ducts
  + **Temp and RH** sensor, i.e. Adafruit SCD-40 - True CO2, or Sensirion SHT40I-BD1B (<https://sensirion.com/products/catalog/SHT40I-BD1B>)
  + **Particulate Matter** sensor, i.e . Adafruit PMSA003I Air Quality Breakout (<https://www.adafruit.com/product/4632> or <https://www.adafruit.com/product/4505>), or Gravity SEN0233 Air Quality Sensor (<https://www.dfrobot.com/product-1612.html>), or Sensirion SPS30 (<https://www.digikey.es/en/products/detail/sensirion-ag/SPS30/9598990>)
  + **Ozone** sensor, i.e. Gravity: Electrochemical Ozone Sensor SEN0321 (<https://www.dfrobot.com/product-2005.html>) or Gravity: Factory Calibrated Electrochemical Ozone Sensor SEN0472 which is 3x the price – not sure why/if needed or justified (<https://www.dfrobot.com/product-2516.html>)
  + **Formaldehyde** sensor, i.e. Sensirion SFA 30 (<https://sensirion.com/products/catalog/SFA30>)

The ultimate objective is to show how IAQ parameters improve while ReSPR’s devices are running. (Can you explain IAQ please ).

The additional sensor(s) is/are fitted within a specific external housing which should be placed somewhere in the room or wall with an appropriate or bracket. (Explain Detail More)

Data collected through the sensors is transmitted to the HMI (would it be possible to have multiple HMI?) providing users “real-time” information about relevant IAQ parameters. ( Extra Hardware and WiFi Router Will be required)