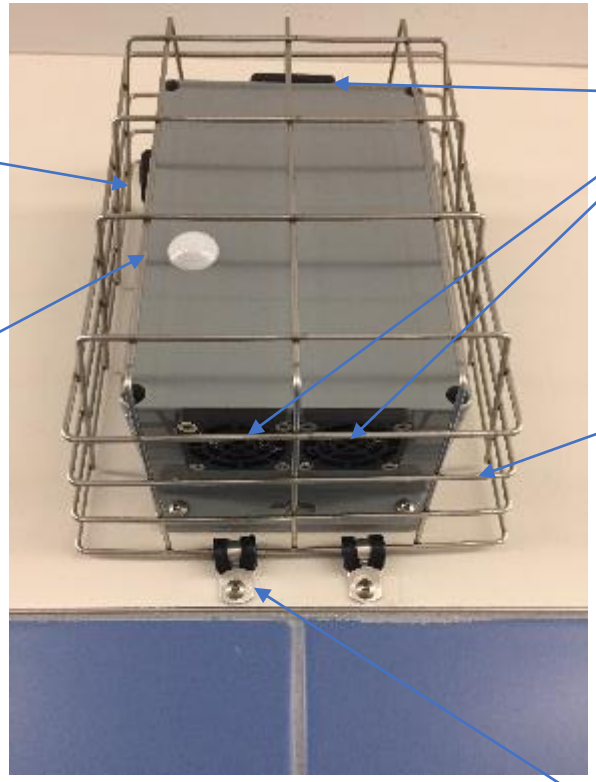
Zeptosense™

Helping the world sense to safety™

External Case Overview

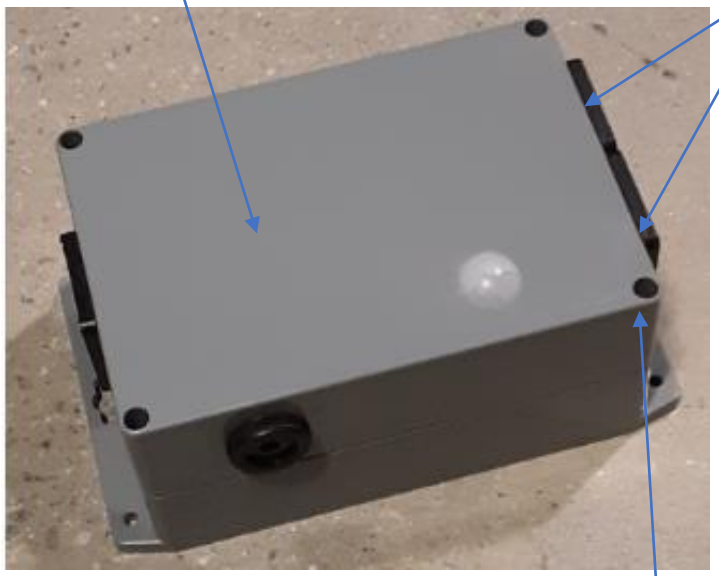
Wall installation with wire cage



External Case Features

- We do not need a gasket
- Customers do not need to access the sensor components but do need access to the battery
- Provide a door and screws for the battery (cable to keep door attached to unit)
- We'd like a backplate design where the mounting holes can be hidden
- We'd like to reduce the touch time for the guards (12 min per case right now)
- We don't want the case any larger

We like the thickness of the plastic

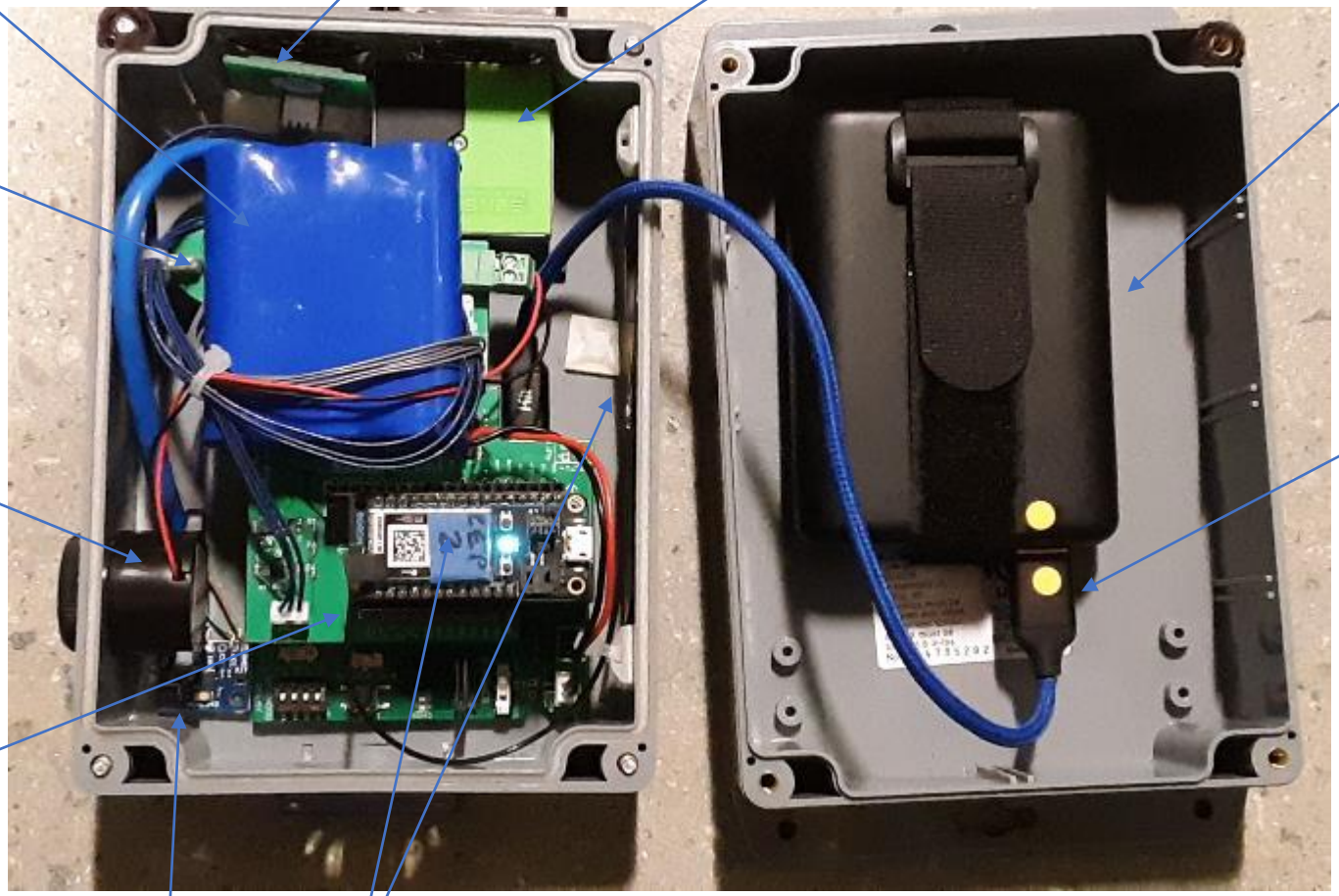


Ventilation holes need to remain open for air flow to sensors

The metal fan guard provides ~75% open area but prevents a student from poking the unit with a pen/pencil

We like the four screws to keep the lid securely closed

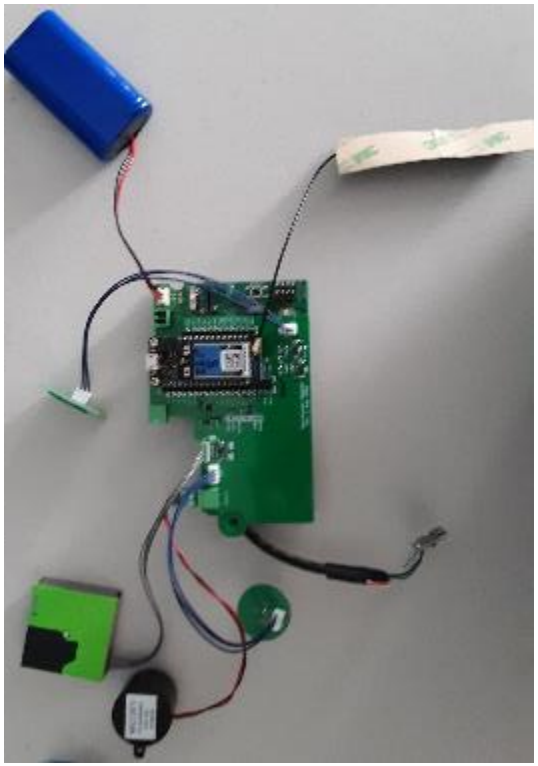
Internal Case Overview



Internal Case Feature

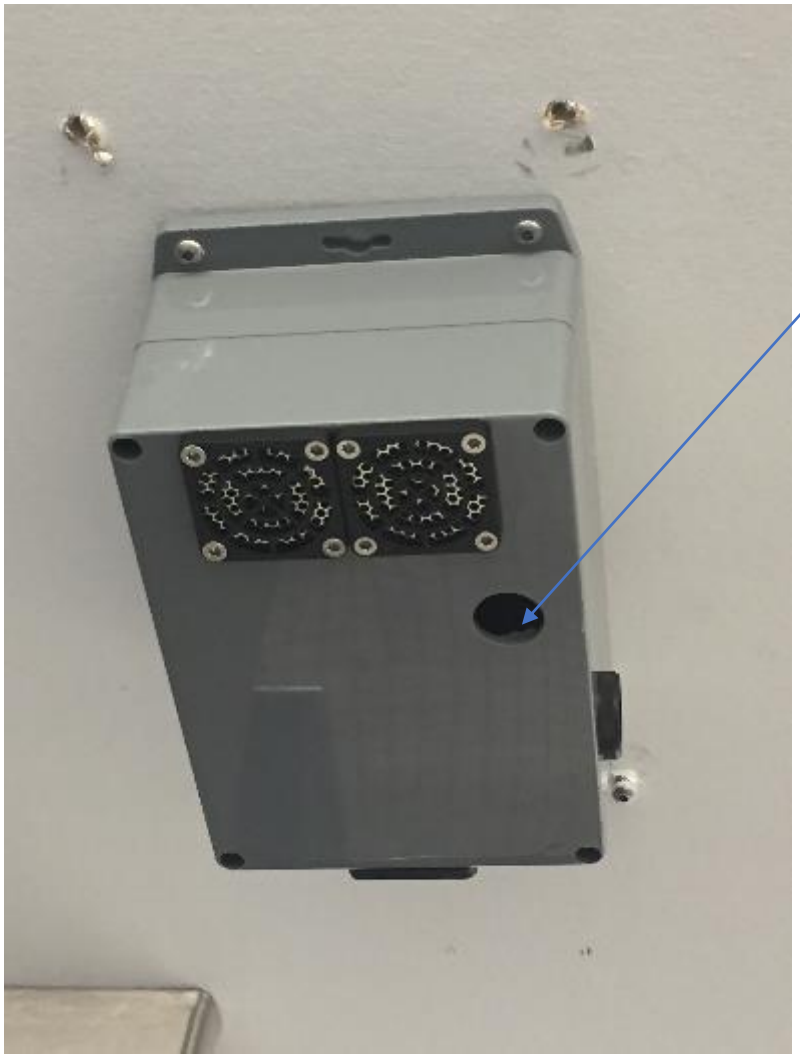
- Case mounting points for installing IoT Node board and the Sensor adapter board
- Case mounting points to install chemical sensor
- Plastic clip/metal bracket to mount particle counter
- Mounting points for accelerometer
- Move buzzer inside and provide case mounting points
- Sleeve/retaining ring for PIR to prevent the sensor from being pushed inside the case or pulled out
- Mounting points for the LiPo system battery
- We'd be interested at in looking at different case styles, shapes and sizes – especially if it will improve air flow.

IoT Node Board



IoT Node Board plus accelerometer, Sensor adapter board, Sensors, and Communication board

Damaged Cage



- A student pulled the wire cage out of the ceiling
- The student thought the PIR was a reset button and pushed it up inside the unit