TOPIC: Pandemic Planning Protocols	SUBJECT: Carbon Dioxide	**Code:** PPP011
		Date of Issue: April 1, 2022
		Revised:
		Page: Page 1 of 2

CARBON DIOXIDE DETECTORS

Background –

What is Carbon Dioxide CO_2

Carbon dioxide is produced by humans and animals as part of the breathing process. We breathe in oxygen and exhale carbon dioxide. This is then used by plants and converted back to oxygen. We need both oxygen and carbon dioxide around us at the same time for plants and humans to continue functioning.

The difference between Carbone Monoxide and Carbon Dioxide

The key difference between carbon monoxide and carbon dioxide is that carbon monoxide is a fatal gas when not recognized and treated, while carbon dioxide is naturally occurring and does not generally pose a threat.

The use of Carbon Dioxide detectors in 24 hour residential settings, Baycourt office and Day Service Apartment -

- Avenue II has been provided with wireless, battery operated, CO_2 detectors to assess ventilation and particulate levels in residential locations in relation to COVID-19 transmission risks.
- Place the sensor in areas where clients congregate with staff.
- COVID-19 can be spread by aerosols and remain infectious in the air for up to 1 – 2 hours. Proper ventilation can reduce the risk of COVID-19 infection.
- CO_2 Concentration can be used as an air quality indicator and can be monitored with CO_2 sensors.
- This sensor warns when the air quality has become high (red) indicating when the airflow of the room needs to be adjusted. This can be done by opening windows, doors to improve the airflow in the area which will lessen the risk of transmission of COVID-19 if present.

TOPIC: Pandemic Planning Protocols	SUBJECT: Carbon Dioxide Detectors	Code: PPP011
		Date of Issue: April 1, 2022
		Revised:
		Page: Page 2 of 2

1

Temperature of the air in Celsius or Fahrenheit. To change the temperature units, refer to the chapter **"Switch positions explained" on page 4.**

2

Relative humidity of the air (RH %).

3

CO_2 concentration level in ppm (parts per million).
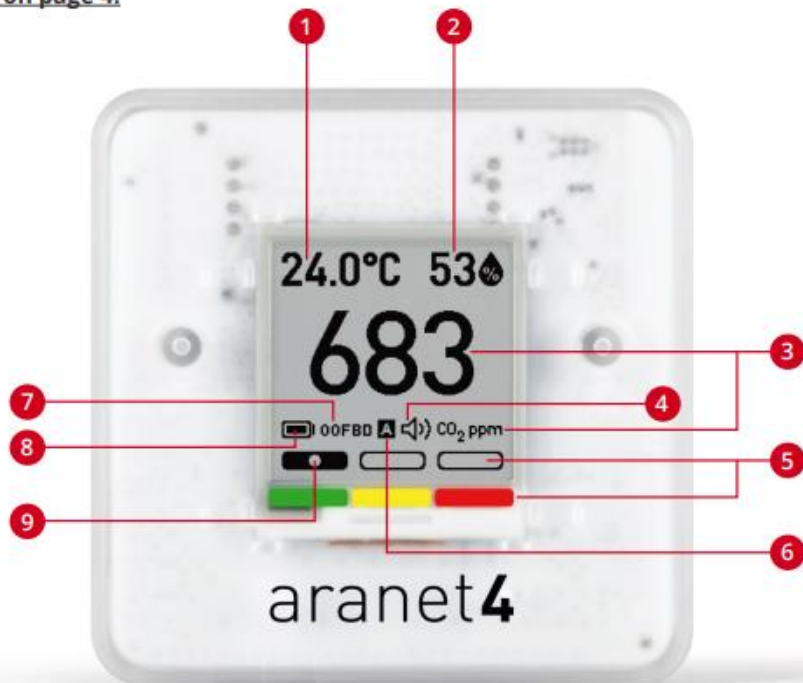
5

CO_2 threshold level indication

Green represents a good CO_2 level (below 1000 ppm*)

Yellow represents the average CO_2 level (1000 to 1400 ppm*)

Red represents an unhealthy CO_2 level (above 1400 ppm*)

6

CO_2 calibration mode indication. Symbol **A** is displayed when calibration is set to automatic. No letter is displayed when calibration is set to manual mode.

8

Battery level.

7

For Aranet4 PRO only: Monitor identification number comprising five hexadecimal symbols of the Aranet4 PRO device (wirelessly connecting **Aranet PRO base station** & **Aranet Cloud**).

9

Adjustable CO_2 thresholds that can be set using the Aranet4 app.