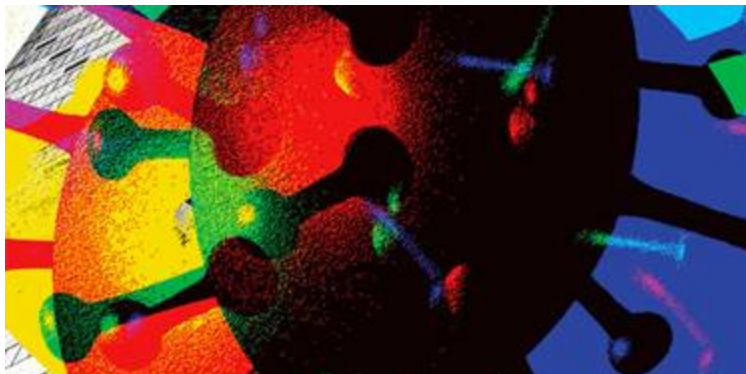


# Beswick House

The logo for SIMAX, featuring the letters 'S', 'I', 'M', 'A', 'X' in a stylized, lowercase font. The 'S' and 'A' have small orange dots above them. The letters are connected by a wavy line.

## Covid 19 - Mitigation Report

Created by: Master System Integrator

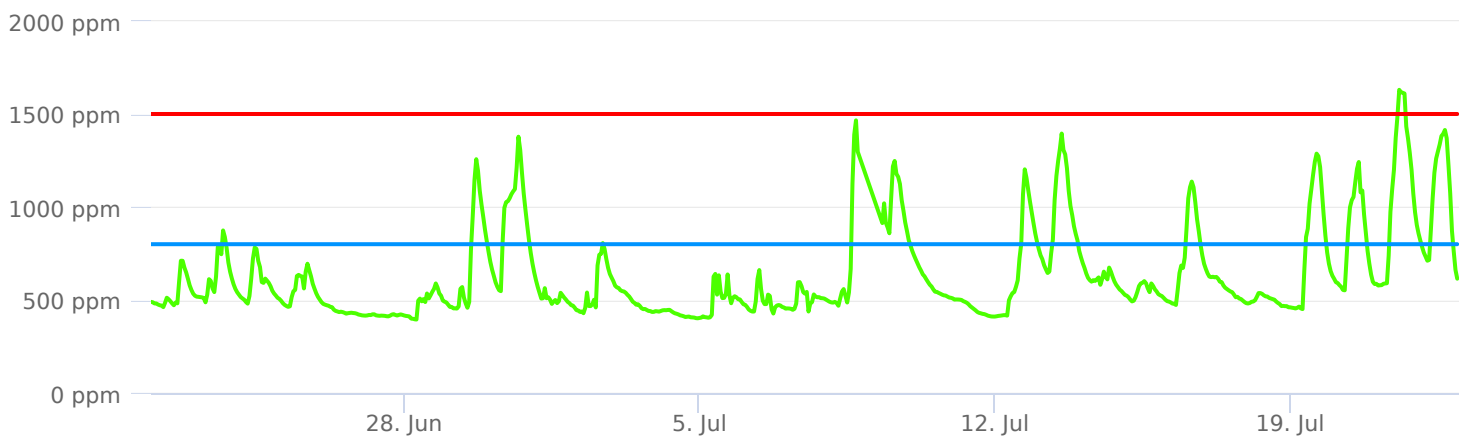


# Guidance on mitigation of SARS-CoV-2 Transmission.

In the context of SARS-CoV-2 transmission, measurement of CO<sub>2</sub> may be used as an indicator of poor ventilation. In single-zone spaces with more than 20 people, a CO<sub>2</sub> level that is regularly above 1500 ppm (absolute value) is likely to indicate ventilation conditions that pose a higher risk of aerosol transmission. Spaces where there is potential for high aerosol generation should aim for CO<sub>2</sub> at least below 800 ppm, and even this may not be sufficient to mitigate transmission.

## Back Office CO2

Back Office CO2



- Office Desk CO2 Sensor -> Zone Air Quality (CO2) ppm
- Office Desk CO2 Sensor -> Optimal CO2 in Office Space ppm
- Office Desk CO2 Sensor -> Alert Level CO2 for Office Space ppm

## Analytic Rule Performance - High Zone CO2 Level - Covid Vent

Rule gauge

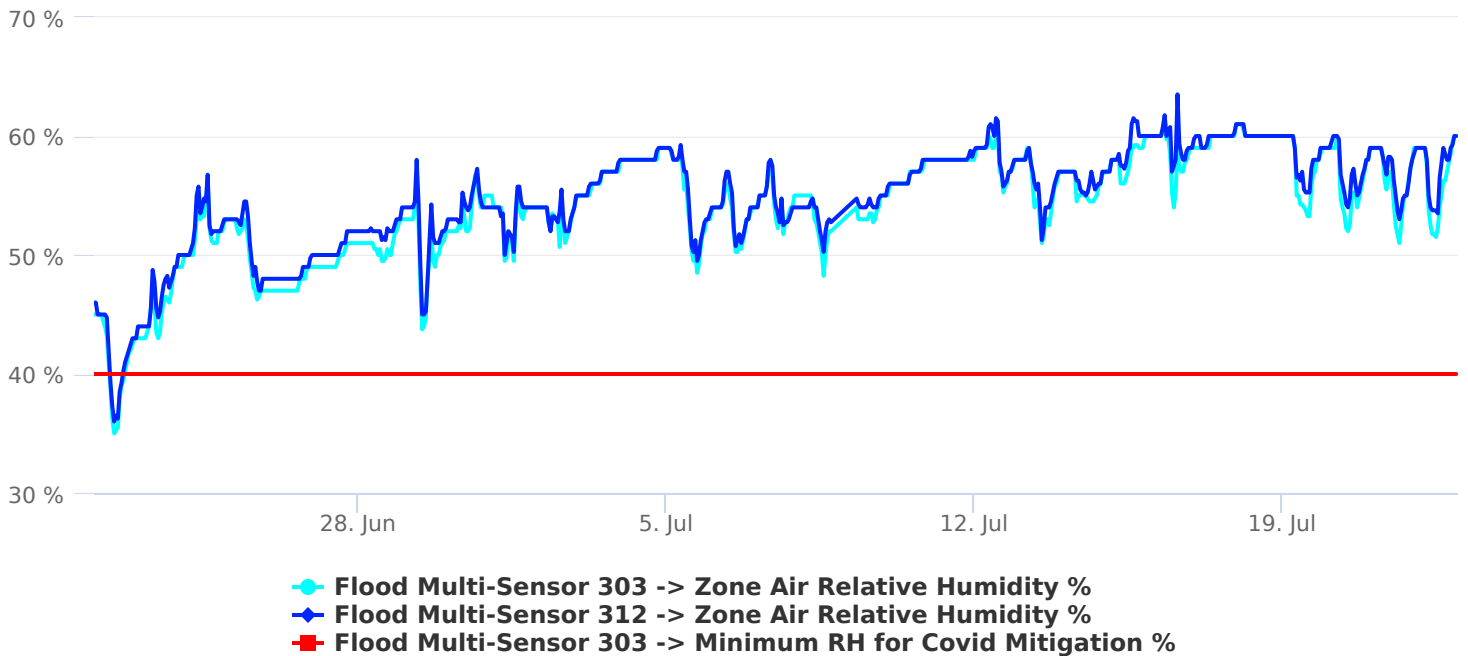


# Guidance on mitigation of SARS-CoV-2 Transmission.

Virus survival increases with decreasing temperature and humidity. In most buildings maintaining comfortable temperatures and humidity above 40%RH is likely to be beneficial for reducing risk. However this factor is likely to be less important than the ventilation rate. The virus may survive for significantly longer in low temperature and low humidity environments (e.g. chilled food processing, cold stores) which could enhance transmission risks by all routes including aerosol.

## Humidity Analysis for Covid Mitigation

Humidity Analysis for Covid Mitigation



## Analytic Rule Performance - Low Zone %RH Level - Covid Vent

