SI-901 CO2 Carbon Dioxide Detector

with ambient Temperature, Humidity and clock

OFFICE BUILDINGS

SHOPPING MALLS

INSTITUTIONS

HOSPITALS

HOTELS

Building owners, facility managers and occupants all have a role to play in maintaining good indoor air quality for the health and comfort of occupants in buildings. They can take guidance from the Singapore Standard (SS 554) for Indoor Air Quality for Air-Conditioned Buildings which specifies good practices in managing indoor air quality as well as standards and limits of indoor air quality parameters.

To assess the adequacy of ventilation, measurement of ventilation rate is required. If not possible, carbon dioxide levels at occupied areas may be used as a surrogate. According to SS554, high carbon dioxide levels, more than 700 ppm in excess of outdoor level, indicates poor ventilation or overcrowding. In view of the current COVID-19 situation, premises owners should achieve lower levels.

CO2 Carbon Dioxide Detector

Features

- CO2, ambient temperature, humidity and clock
- Industrial grade sensor
- Measure and display CO2 concentration, temperature and humidity at the same time
- Big size color VA display
- Yellow: 1200 to 1999ppm; Red: over 2000ppm
- 3 colours LED Alarm and buzzer alarm
- Re-chargeable lithium battery

Model	SI-901		
	Range	Accuracy	Resolution
CO2	400 ~ 6000ppm	+/-(50ppm + 5% of reading) 400 ~ 5000ppm	1
Temperature	-20 ~ 50°C (-4 ~ 122°F)	+/- 1.5°C/2.7°F	0.1
Humidity	1% RH ~ 99%RH	0% ~ 80% RH: +/-5%RH Others: +/- 10% RH	1
CO2 sensor type	Non dispersive infrared (NDIR) gas sensor		
Data update	< 1s		
Working environment	-10 ~ 50°C / 14 ~ 122°F: 1 ~ 85% RH (no condensation)		
Storage environment	-20 ~ 60°C / -4 ~ 140°F: 1 ~ 90% RH (no condensation)		
Sampling rate	3s		
Warm-up time	30s		
Power supply	3.7V Type-C Charging Interface (DC5V 1A Adapter)		
Dimension	92 x 98 x 36mm		
Weight	198g		

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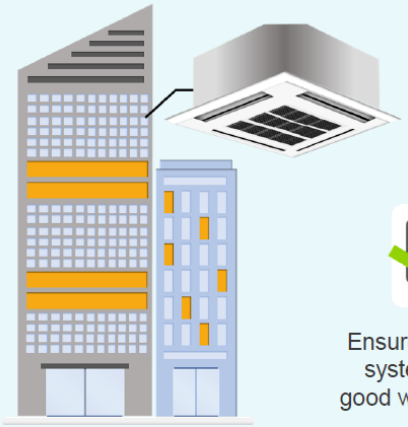
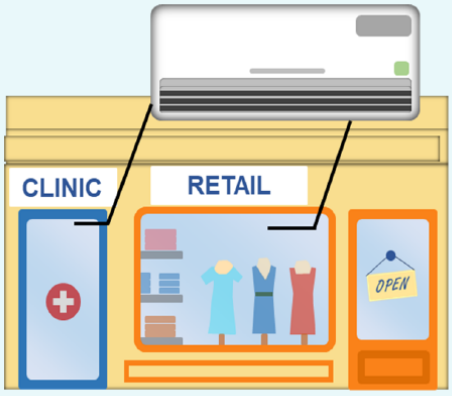
Guidance on improving ventilation and indoor air quality in buildings amid the COVID-19 situation



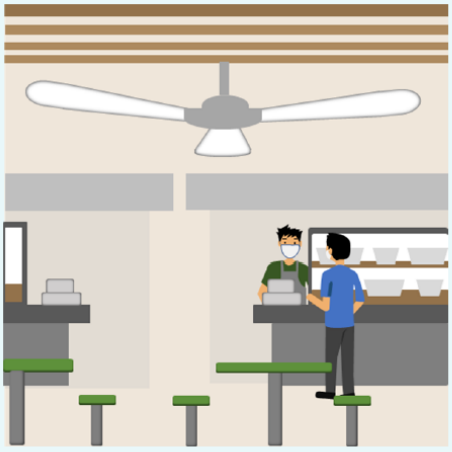
For air-conditioned spaces with mechanical ventilation provision (e.g. office buildings, shopping malls)

- Ensure ventilation systems are in good working order
- Maximise fresh air intake
- Purge indoor air daily before occupancy
- Reduce indoor air recirculation
- Keep toilet exhaust fan running



For enclosed air-conditioned spaces without mechanical ventilation provision (e.g. retail shops with split-unit air-conditioners)

- Open doors/windows frequently
- Consider window-mounted fan systems
- Keep toilet exhaust fan running
- Ensure intact water seal in sanitary system



For naturally ventilated premises (e.g. coffee shops, markets, dormitories)

- Keep windows and/or doors open
- Install outward-facing fans at windows to increase ventilation
- Keep toilet exhaust fans running; consider window-mounted fans
- Ensure intact water seal in sanitary system

Extracted from NEA Website
https://www.nea.gov.sg/our-services/public-cleanliness/environmental-cleaning-guidelines/advisories/guidance-on-improving-ventilation-and-indoor-air-quality-in-buildings-amid-the-covid-19-situation