



TL-2000H for Carbon Dioxide measurement



CARBON DIOXIDE AND COVID 19 LINKS



There is increasing evidence that carbon dioxide levels within buildings correlate with the airborne spread of coronavirus.

Upon exhalation, we exhale CO₂ into the environment. If the exhaled air is contaminated with viruses e.g. Covid-19, there is a high risk of disease transmission.

The HSE has identified the importance of well-ventilated work areas.

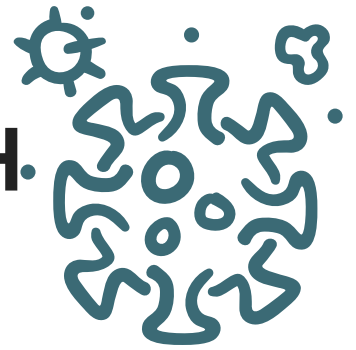
There is overwhelming evidence that exhaled aerosol droplets, suspended in indoor air, is a major cause of Covid-19 transmission in the workplace.

REGULATIONS



The Workplace (Health, Safety and Welfare) Regulations 1993 require all employers to ensure that every enclosed workplace is ventilated by a sufficient quantity of fresh or purified air.

MEASURING COVID-19 TRANSMISSION THROUGH TL-2000H.



As coronavirus is spread through the air, higher CO₂ levels in a room mean there is a higher chance of transmission if an infected person is inside. The TL-2000H can monitor the Carbon dioxide levels within a room, this will help identify poorly ventilated areas. A consistent CO₂ value less than 800ppm indicates a well ventilated space. If the reader indicates a higher value then there is a dangerous risk of coronavirus transmission. In order to lower current CO₂ levels fresh air is required.

PRODUCT DESCRIPTION



TL-2000H is different to any other Carbon Dioxide monitor as it has a brand new 3.2" TFT Full Colour Display. This special feature allows users to monitor Carbon Dioxide levels easily through the colour changing scale.



The product has the characteristics of temperature and humidity tendency chart, 999 groups of data record, 3.2" TFT full colour display, alarm setting, data record of time interval measurement, real-time date and time, chargeable lithium battery or separate external USB charging, Life of sensor is more than 8000 hours.



Also comes with hard carrying case, manual, charger and battery.

SPECIFICATION

Parameter	Indicators
Carbon Dioxide concentration measurement scope	0-9999PPM
Resolution ratio of Carbon Dioxide concentration	1PPM
Accuracy	±10% of reading of ±40 PPM
Working temperature range	-10-+60°C (-4-+140°F)
Working humidity range	0-99 %RH
Storage temperature range	-40-+80°C
Temperature measurement range	-20-60°C
Temperature measurement accuracy	±1°C
Temperature resolution	0.01°C/F
Humidity measurement range	0-100%RH
Humidity measurement accuracy	±2%RH
Humidity resolution	0.01%RH

SPECIFICATION

Power Supply	Built in with demountable 3.7V/18650 cylinder battery or externally connected 5V USB power
Working current	180mA-300mA
Battery service life	2200mAh capable of continuous work at >9 hours
Charging duration	3 hours
Auto power off	Capable of being set (with factory default as automatic power off in 15 minutes)
Record groups	999 groups
Net weight	191g
Size	140*134*33mm



APPLICATIONS

THIS MONITOR CAN BE USED IN A RANGE OF ENVIRONMENTS SUCH AS



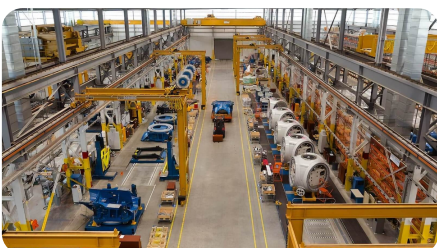
OFFICE BLOCKS



EDUCATION



GOVERNMENT OFFICES



MANUFACTURING

APPLICATIONS



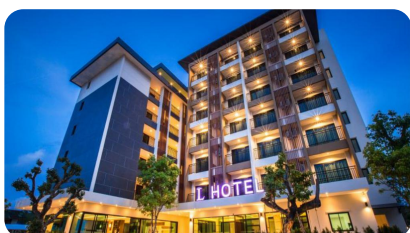
HOSPITALS



STORES



AIRPORTS



HOTELS



WASTEWATER

COST EFFECTIVE



The TL-2000H CO2 monitor can help businesses become more energy efficient. Throughout the day windows are opened in enclosed space to let in fresh air if the room feels stuffy due to an increase in Carbon Dioxide. Often, the heating is on within these buildings whilst the windows are open to keep staff or students warm. This device allows individuals to know exactly when CO2 levels are rising allowing the end client knowledge of when to allow fresh air into rooms, therefore windows are only opened when necessary, **saving money as a result and being kinder to the environment.**

PERFORMANCE



Both workers and students spend half their time in classrooms, meaning large numbers of people spending several hours together in an enclosed room.

Carbon Dioxide concentrations between 2,500ppm to 4,000ppm can have negative effects on human performance. Individuals **cognitive scores drop 21% with a 400ppm increase in CO2.**