Milesight

Air Quality
A Big Priority
During Post-COVID-19
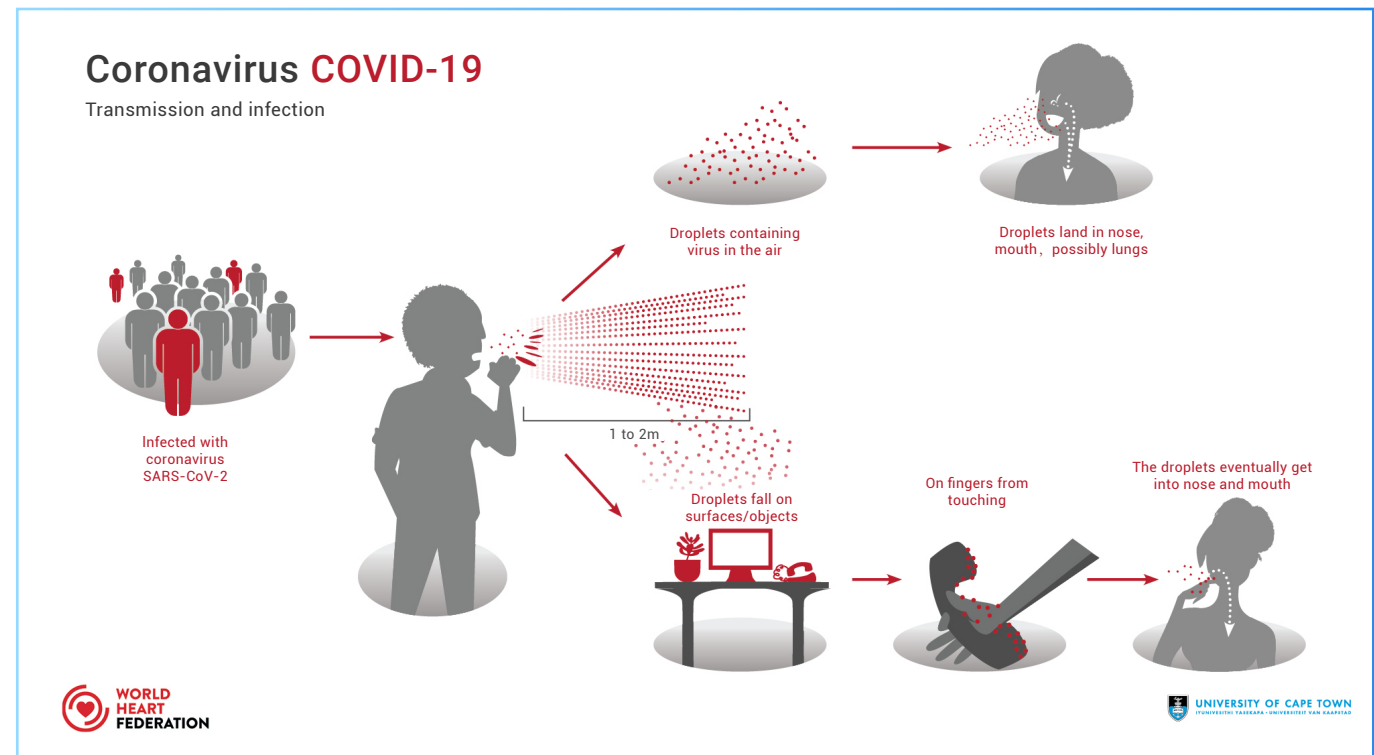
HCHO

PM2.5 &10

TVOC

CO₂

O₃

HEALTHY AIR IS A REQUIREMENT, NOT AN OPTION.

8 MINS

Coronavirus COVID-19
Transmission and infection

Infected with coronavirus SARS-CoV-2

Droplets containing virus in the air

Droplets land in nose, mouth, possibly lungs

1 to 2m

Droplets fall on surfaces/objects

On fingers from touching

The droplets eventually get into nose and mouth

WORLD HEART FEDERATION

UNIVERSITY OF CAPE TOWN

Research indicates the coronavirus could remain in the air for more than **eight minutes** after talking. Normal speech could generate airborne droplets that can remain suspended for **tens of minutes or longer** and are eminently capable of transmitting disease in confined spaces.

Global coronavirus cases and deaths

(at end of Jul 7)

Jan 22
2020

Jan 17
2020
11,694,766

Confirmed cases

540,572

555

17
Confirmed deaths
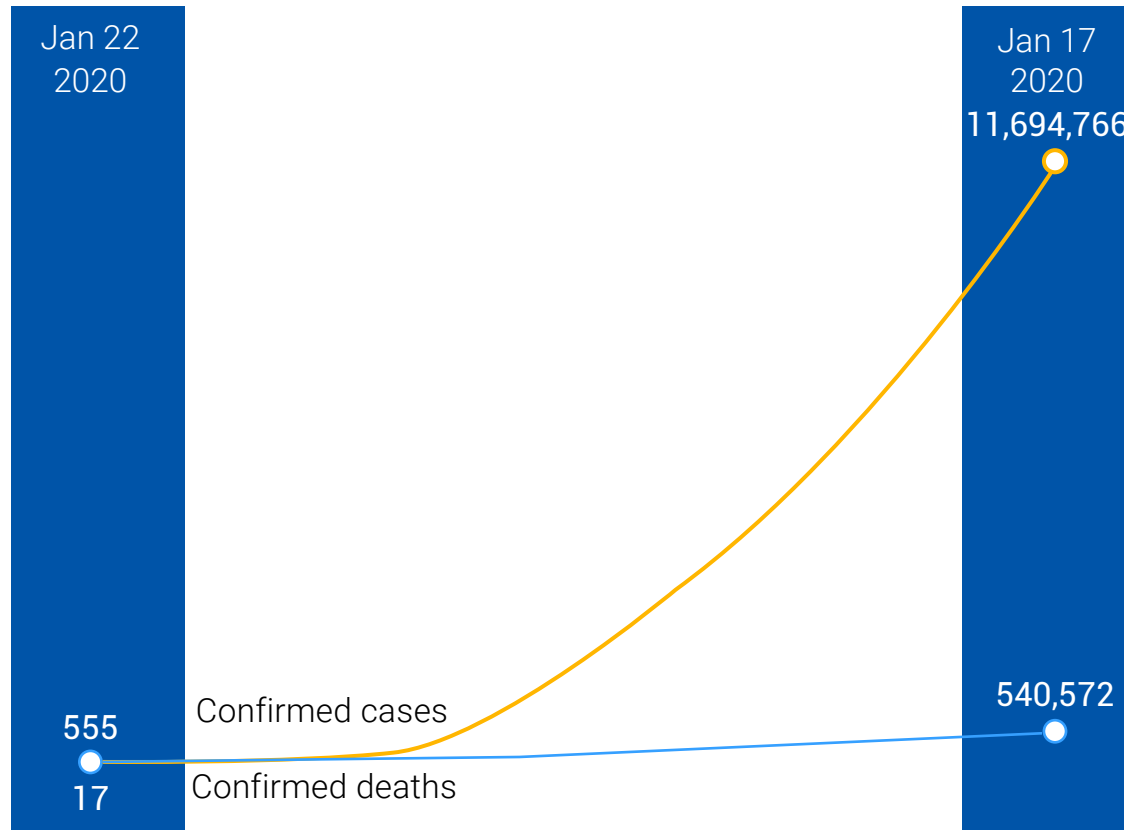
PA graphic.Source: Johns Hopkins University Coronavirus Resource Centre

The World Health Organisation (WHO) has acknowledged there is "emerging evidence" that Covid-19 could be spread through particles in the air.

"We believe that we have to be open to this evidence and understand its implications regarding the modes of transmission, and also regarding the precautions that need to be taken."

Says Professor Benedetta Allegranzi, technical lead for infection prevention and control.

Masks? Medicine? Hands Sanitizer? Social Distancing? Not Enough! You Need More Protection!

Drawbacks of Natural Ventilation

You have negligible control over it, especially the airflow direction.Improper natural ventilation significantly increases the risk of airborne pathogens being transmitted.

" *Ensuring Health of Occupants*

Milesight has always been a celebration of IoT technology and its ability to improve lives. We remain optimistic that technology can help address the challenges we face together. And it means giving you the tools to increase your knowledge, success, health, and happiness.

Clean air in indoor environment means healthier, more productive people. A modern building supports the confidence of the people who use it. Using our understanding of indoor environments, IAQ Solution will soon give you the insights to make the safer and healthier decision. At scale, this has potential to significantly increase productivity and efficiency.

KEEP POLLUTION AT BAY
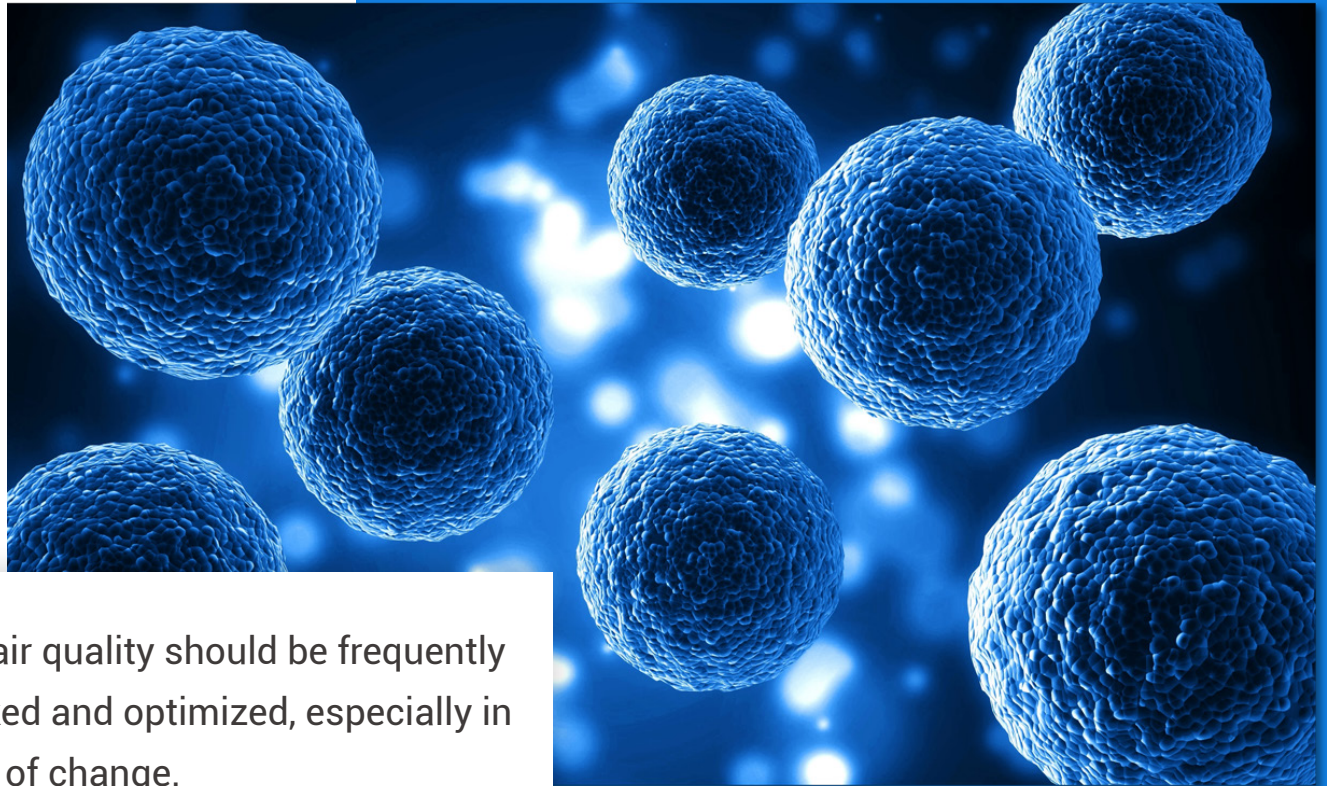
Your air quality should be frequently checked and optimized, especially in times of change.

Ventilation

Proper air exchange can dispel odors, chemicals and CO_2, while balancing energy use and reducing disease transmission.

Temperature

Maintaining proper temperatures in your building not only improves occupant comfort but can also potentially minimize the growth and spread of many pathogens.

Humidity

High humidity levels can promote the growth of bacteria and mold and create an environment where dust mites can thrive. Lower humidity creates other concerns like dry, itchy skin, transmission of viruses and irritation of the upper respiratory system.

Indoor air quality Pathogen Control

Check current critical air measurements or analyze historical levels to detect important changes. It is helpful to check key indicators, such as carbon dioxide (CO_2), particulate matter 2.5 & 10 (PM2.5 & 10), total volatile organic compounds (TVOC), formaldehyde (HCHO), Ozone (O_3), measuring temperature, and relative humidity.
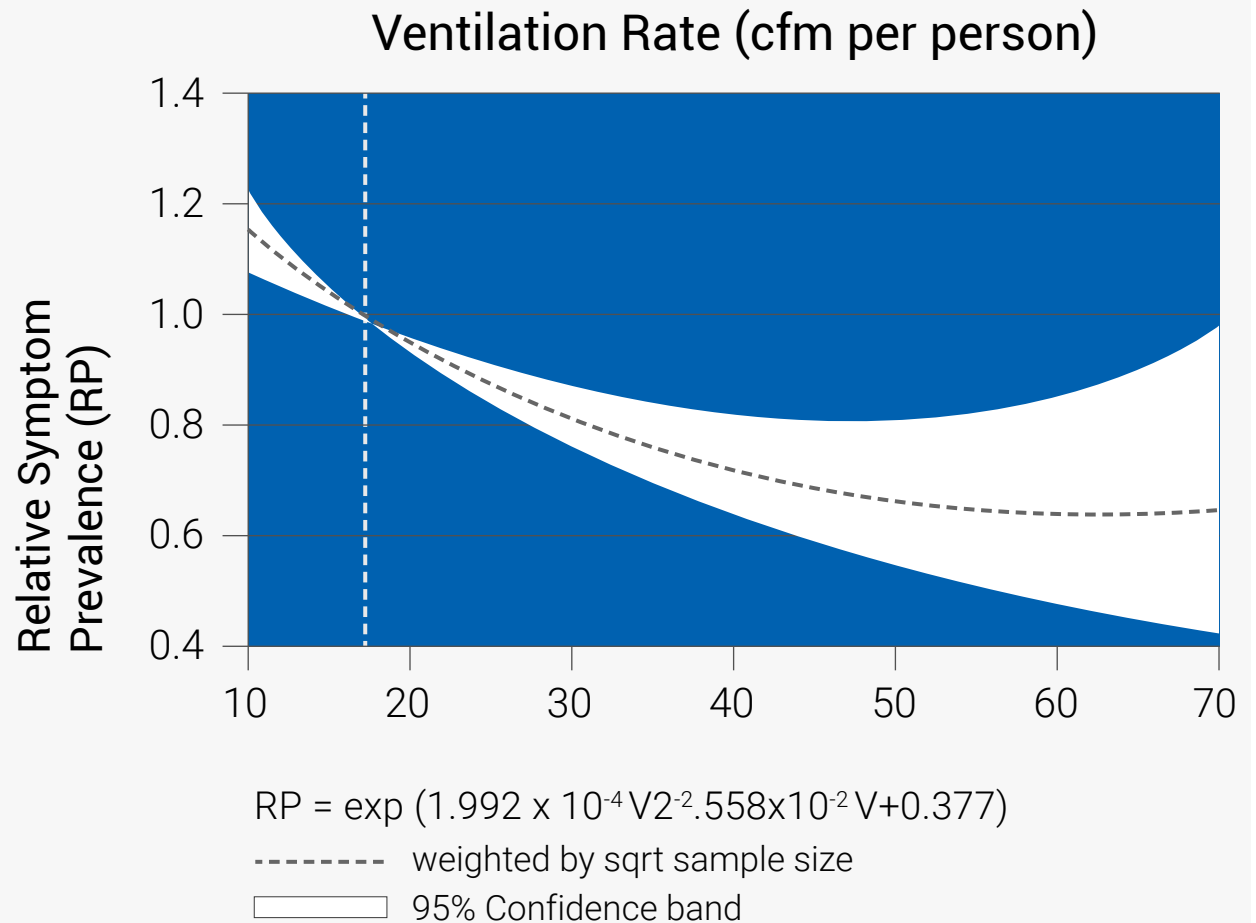
Analytics

Deploying tools that monitor your indoor air quality 24/7 for better management. By connecting your Milesight LoRaWAN® sensors and gateways to Milesight IoT Cloud, you can read visualized data on the intuitive dashboards. It brings together all the notifications and status on your devices, organizes them and highlights the important stuff.

REDUCING RISK OF COVID-19 THROUGH VENTILATION AND AIR QUALITY

The figure estimated relative Sick Building Syndrome symptom prevalence in office workers versus ventilation rate.

Sources:

1.https://iaqscience.lbl.gov/ventilation-rates-and-sick-building-syndrome
2.Sick building syndrome (SBS) is a condition in which people in a building suffer from symptoms of illness or become infected with chronic disease from the building in which they work or reside.

Ventilation Rate (cfm per person)

Relative Symptom Prevalence (RP)

$RP = \exp(1.992 \times 10^{-4} V2^{-2} .558 \times 10^{-2} V + 0.377)$

-- -- -- weighted by sqrt sample size

▢ 95% Confidence band

SAY GOODBYE TO SICK BUILDING SYNDROME

Protect your entire space from all of the little things floating
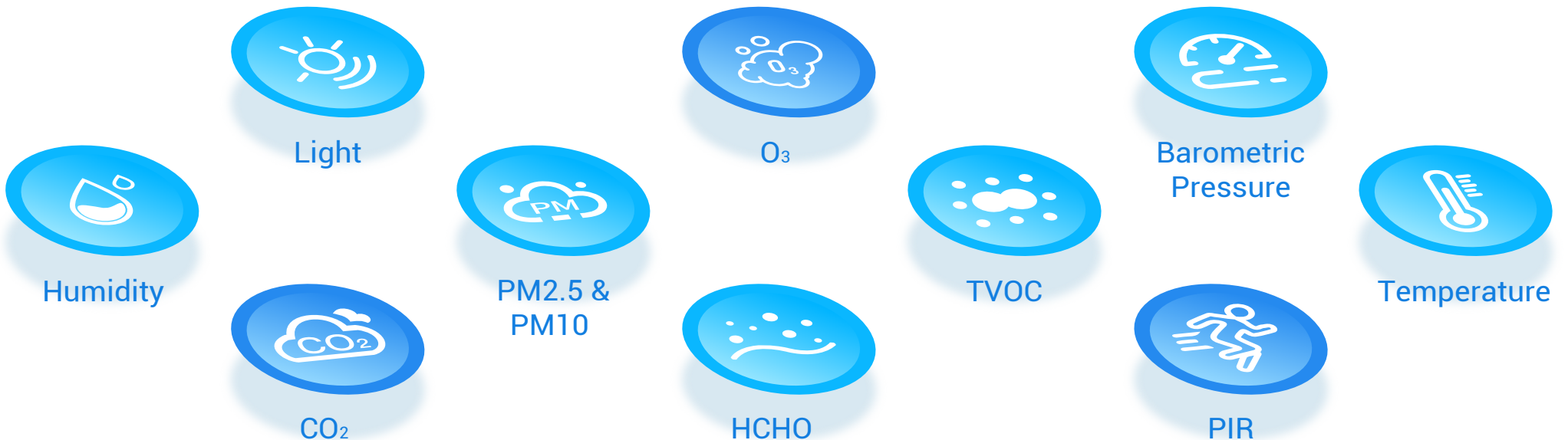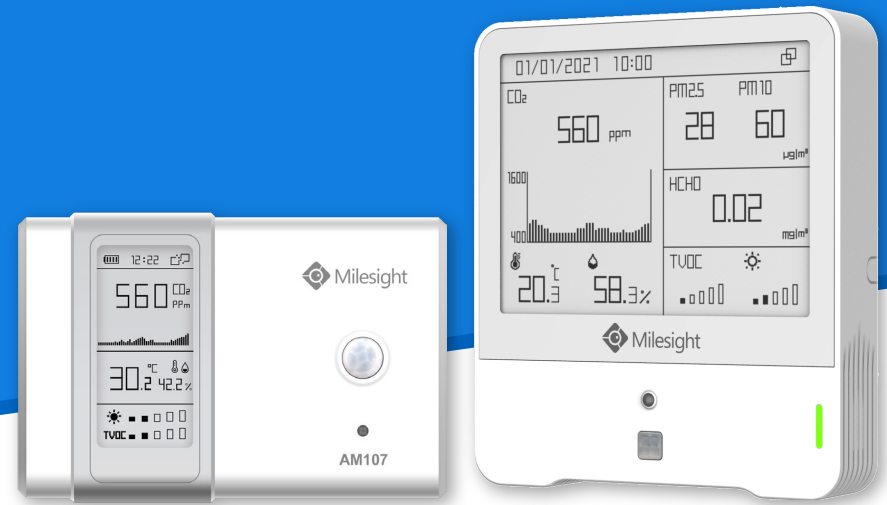in the air and lingering on surfaces.

ALL IN ONE

LoRaWAN® Ambience Monitoring Sensor Series, AM100 and AM300, can monitor the air people breathe as occupancy fluctuates and people interact. They can detect:

Light

O_3

Barometric Pressure

Humidity

PM2.5 & PM10

TVOC

Temperature

CO_2

HCHO

PIR

FLOWING WITH THE NEW NORMAL VIBE

We've kept ourselves safe and healthy by careful protection yet without effective information. Now it's time to be out of the woods.

Talk with one of our experts about IAQ solutions for safer and healthier living.

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