

# AIR QUALITY MONITOR

## PHASE 5

### PARTICULATE MATTER (PM<sub>2.5</sub> AND PM<sub>10</sub>):

These are tiny particles or droplets in the air that can be harmful when inhaled

### GASES:

Monitors can detect gases like carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), ozone (O<sub>3</sub>), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), and volatile organic compounds (VOCs).

### TEMPERATURE AND HUMIDITY:

These parameters can affect air quality and comfort so it is very useful for monitoring the air quality and temperature and humidity.

## **AIR QUALITY INDEX(AQI):**

Some monitors calculate an air quality monitor score, which summarizes overall air quality based on the measured parameters.

Air quality monitors can be used in homes, work places, industrial settings, or outdoor environments to help individuals and authorities make informed decisions recording health and environmental conditions. They are particularly useful for tracking pollution levels and taking measures to improve air quality.

## **OUTDOOR AIR QUALITY MONITORS:**

These monitors are typically installed in urban areas and measure a range of pollutants to provide real time data for public awareness and policy making.

## **INDUSTRIAL AIR QUALITY MONITORS:**

These are used in industrial settings to monitor emission, ensuring compliance with environmental regulations.

The choice of monitor depends on the specific air quality parameters you need to measure and the location or application. Advances in technology have led to the development of more compact and affordable air quality monitoring devices, making it easier for individual and organization to monitor and address air quality concerns.

## CONCLUSION:

An air quality monitor is an invaluable tool for assessing and maintaining the quality of the air we breathe. It provides crucial data to help us make informed decisions about our health and the environment. As we continue to prioritize clean air and well-being, this device will play a vital role in safeguarding our future.