



Air pollution is one of the greatest environmental risk to health. By reducing air pollution levels,

In 2019, 99% of the world's population was living in places where the WHO air quality guidelines levels were not met.

The combined effects of ambient air pollution and household air pollution are associated with 6.7 million

assess the extent of pollution

provide information on air quality trends

support implementation of air quality goals or standards

## AIR QUALITY MONITORING

Ambient air quality monitoring

Indoor air quality monitoring

Stack emission monitoring

Air quality testing and monitoring are done in areas where pollution problem exists and it is expected e.g. Companies Premises, Industrial area, traffic

It is good to conduct Air Pollution Testing program in order to get annual average sampling as pollutants behave in each season differently

air testing on-site there is some background information required of the sources/emissions, health and demographic information



Types



improve air quality – monitoring helps to identify areas with poor air quality and the pollutants responsible for it. This information can be used to implement air pollution control measures to improve air SICE has extensive experience in the operation and maintenance quality. Reducing the levels of pollutants in the air can lead to of Air Quality Monitoring Networks, which means it has a deep improved health outcomes for the population and a better quality understanding of the various types of data management of life applications control centre software **Benefits** monitor compliance with regulations – air quality sensors and other devices make it possible to keep an eye on the emissions from industrial sources, such as power plants and factories, to ensure they meet the standards set by government agencies and adjust The user accesses the web application using a username and your outdoor activities accordingly. One of the main benefits of air password, and its functionality responds to management quality monitoring is that it helps us to ensure that the air we operations (information log, modification and deletion, control breathe is safe. operations, etc.). Monitoring stations have equipment to measure the following for industry: clean technologies that reduce industrial smokestack parameters: • NOx, SO2, CO, O3, BTX, etc. • Particulate matter emissions; improved management of urban and agricultural waste, (PM10 and PM2.5) including capture of methane gas emitted from waste sites as an alternative to incineration (for use as biogas) Reduce air pollution AIR QUALITY MONITORING monitoring stations for transport: shifting to clean modes of power generation; Air Quality Monitoring Networks allow the measurement, operation prioritizing rapid urban transit, walking and cycling networks in and predictive analysis of the evolution of air pollution in different cities as well as rail interurban freight and passenger travel; shifting areas (urban areas, industrial areas, special nature conservation to cleaner heavy-duty diesel vehicles and low-emissions vehicles and fuels, including fuels with reduced sulfur content areas, etc.) A key component of the monitoring stations is the Data Acquisition System Indoor Air Quality Monitoring System (DAS), which is in charge of acquiring and recording the data collected by the It is quite shocking to know that more than 3.8 million people die analysers and sending it, along with any generated alerts, to the Control annually due to indoor air pollution. The presence of particulate matter and harmful gases drops the quality of air, which when inhaled can cause severe diseases such as asthma, decreased lung function, and even cancer. **Applications** Data acquisition system SICE has developed its own DAS, called AIDA II, based Outdoor Air Quality Monitoring System on a rack-mounted industrial PC with standard market Environmental health has been a topic of discussion for decades. components (HW and SW), which makes it easy to Different policies and regulations pertaining to the emission of maintain and make changes and/or upgrades. It has a pollutants in the air have been imposed to keep the air quality high. monitor which can display any type of report relating to Hence, to keep the emission rate well under control as per the determined guidelines, it is important for industries to monitor the the status of the remote station in situ production of harmful gases.

