IoT based Air Pollution Monitoring System

INTRODUCTION

IoT based Air Quality Monitoring System is a continuous ambient air quality monitoring systems (CAAQMS). It is an affordable compact size system having ability to support a range of connectivity options like Wifi, GSM, NB-IoT, etc.

It is a fully integrated system capable of measure different gaseous pollutants and meteorological parameters.



SPECIFICATIONS

Pollutants:

- **03**
- CO2
- CO
- PM2.5
- PM10
- SO2
- NO2

Meteorological Parameters:

- Temp
- Humidity
- Pressure

Other:

- GPS location

KEY FEATURES

- Real time continuous
 measurement of gaseous and
 particulate matters including
 temp, humidity, pressure as per
 Indian standards
- Compact size
- Power backup option
- Data logging over cloud
- Weather proof
- LED display for every sensor board
- Future prediction
- Mobile Application



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IoT based Air Pollution Monitoring System

CONNECTIVITY

DATA VISUALIZATION











Mobile APP



OTHER FEATURES

Data Rate: 375 Kbps (Max UL/DL)

MQTT Protocol supported

Public/private/hybrid cloud support

NB-IoT

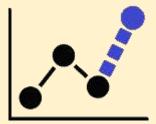
LTE FDD:

B1/B2/B3/B4/B5/B8/B12/B13/B18/

B19/B20/B28

EGPRS: 850/900/1800/1900 MHz

Prediction using AI/ML



Live values
Predicted values

APPLICATIONS

Smart City Development
National Air Monitoring Networks
Urban Air Monitoring Networks
Environmental Impact Assessment



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