IoT Based Industrial Pollution Monitoring

Abstract:

Air, sound and water pollution is a growing issue these days. It is necessary to monitor air and water quality to keep it under control for a better future and healthy living for all. Here we propose an air quality, water quality as well as sound pollution monitoring system that allows us to monitor and check live air quality as well as sound pollution in particular areas through IoT. System uses gas sensors to sense presence of harmful gases/compounds in the air, pH and terbidity sensor to monitor the water quality and constantly transmit this data to microcontroller. Also system keeps measuring sound level and reports it to the online server over IoT. The sensors interact with microcontroller which processes this data and transmits it over internet. This allows authorities to monitor air pollution in different industrial areas and take action against it. Also authorities can keep a watch on the noise pollution near schools, hospitals and no honking areas, and if system detects air quality and noise issues it alerts authorities so they can take measures to control the issue.