

## ABSTRACT

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*Air pollution is a condition of them is air contaminated by substances, neither of which is not dangerous or harmful to the health of the living beings around them. Some pollutants such as CO gas compounds, NO<sub>2</sub> and SO<sub>2</sub> can health badly when on beyond the limits of normal and poorly cared for. Gas detection sensor technology development growing rapidly at this point give a solution to the problem of air pollution can make. By integrating modules LoRa and Raspberry Pi as well as using radio frequency data transmission as a medium so that, it can be made to discuss air quality detection tools. From the results of Testing that has been done, the built system can detect gas pollutants in ambient air, and successfully showed the point coordinates of the locations in realtime.*

*Keywords: Air pollution, radio frequency, LoRa module*