

ABSTRACT

Keluarga Sehat Hospital is one of the modern private hospitals in Pati City. Which has developed in other cities such as Tayu, Rembang, Demak and Semarang under the auspices of PT. Keluarga Sehat Sejahtera or better known as Keluarga Sehat Hospital (KSH). KSH as a superior digital hospital and building an upstream-downstream service network by prioritizing humanism and patient safety, highly upholds the cleanliness of the surrounding area including air cleanliness. Until now, we're still see a lot people smoke in the smoke-free area at Keluarga Sehat Hospital, both in the waiting and in the special children's area room which is very dangerous for outpatients and inpatients. With this, researchers created and analyzed a cigarette smoke detector that can detect cigarette smoke use MQ-2 sensor which provide warning to active smoker not smoke in the area. The results of development can read well according to the specified threshold, namely the light category with a reading of less than 100 ppm, the light category with a reading of more than 100 pmm to 200 pmm and the danger category with a sensor reading of more than 200 ppm. The cigarette smoke detector in the special waiting room for childrens at the Keluarga Sehat Hospital has an accuracy of 85.71%.

Keywords: Cigarette Smoke, Blynk, Smoke Detector, Internet of Things, MQ-2, Hospital, Toddler Room