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Research Article

Web Based Monitoring System for Nuclear Plant

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ABSTRACT

This paper presents the wireless sensor network and Monitoring of Atmosphere at nuclear Power Plant is the main agenda in this paper by using Wireless Sensor Network (WSN). Zigbee and Ethernet are the Wired Communication Protocols used in this paper. Different types of Sensors like temperature sensor, nuclear fluid level sensor and fire sensor which sense the atmosphere changes and convert these changes into different voltage levels. These voltages from each sensor are given to microcontroller for analog to digital conversion. If the conversion is completed it will send the data through zigbee. In receiving side zigbee module is connected to an Ethernet which is used for updating the values in to web server database. The system consists of several distributed monitoring stations that communicate wirelessly with a backend server using machine-to-machine communication. Each station is equipped with different type of sensors as well as data logging and wireless communication capabilities. The backend server collects real time data from the stations and converts it into information delivered to users through web server. Data can be collected and performance analysis and assessment are performed.

Keywords: Zigbee, Sensors, Ethernet, Web page.

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