



RESEARCH ARTICLE

Wireless Monitor and Control System for Greenhouse

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Abstract

Parameter monitoring and control of greenhouse environment play an important role in greenhouse production and management. This paper involve a design and implementation of an XBee based Wireless Sensor Network (WSN) that is used to monitor and control the essential greenhouse parameters, such as, temperature, humidity and light intensity. This implementation supports the farmers to increase the crop production. The standalone XBee module, i.e., without microcontroller, is integrated with specific small size sensors. All monitored parameters are transmitted through a wireless link to computer via coordinator to be analyzed, and then initiate suitable commands to the specific devices to overcome the drifts in an environmental parameters inside greenhouse.

Keywords – WSN; Greenhouse; XBee s2; ZigBee Technology; LM35; LDR

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