

ABSTRACT

Keyword : Monitoring, TCP/IP, WIFI, kelembaban.

As'ad Chaidari , Computer Engineering Program , Department of Information Technology , Polytechnic of Jember , January 3, 2014 . Soil moisture monitoring system using TCP / IP -based WIFI . Commission supervisor , Nurul Zainal Fanani , S.ST , MT and Hariyono Rakhmad , S. Pd , M.Kom .

Soil moisture monitoring system using TCP / IP -based WIFI is a tool that can monitor soil moisture remotely and conduct further control process , as in monitoring the moisture in the soil is often done by coming directly to the place and going back and forth making it less effective in soil moisture monitoring process in place that has a considerable distance , and human resources that have limited time .

Soil moisture is detected on a plantation will be digitally converted by an ADC and then processed using a microcontroller , and data that has been processed by the microcontroller will be transmitted continuously to the computer using wireless media . 's Computer display using Visual Basic 6.0 , Visual Basic function to display the data in the computer allows us to take the necessary action if the soil moisture plantations require more control process .

In this study, we concluded that the tool works well and the external ADC is used to convert data from analog to digital has an keeoran level of 0-10 percent .