ABSTRACT

An electrocardiogram (ECG) is a medical examination of the electrical activity (electrical) heart. Recording of the electrical activity of the heart as a line graph on graph paper trail. Forms of trace lines up and down is called gelombang.proses recording the electrical activity of the heart in the form of a graph called electrocardiography

In previous studies, it has been realized based ECG monitoring applications WiFi and ZigBee is both point to point and multipoint-to-point that can not be distributed directly and can only be monitored in a narrow area of coverage. Therefore, the presence of Electrocardiogram Monitoring Distributed Web Applications for Wireless Application Support Node has a configuration that is Multipoint to Multipoint can be distributed directly. Later, after the data record has been in the chart heartbeat can be transmitted through ZigBee module to the next website data to be displayed and stored on the website has been designed, so as to monitor the results of the record chart heartbeat can be done remotely via the website by experts in the field and can be accessed by users.

From the test results obtained that the ECG data is displayed in graphical form was correct and in accordance with the ECG data is sent. ECG data uploading to a web application using manual upload, wherein the admin role in the upload ECG data according to the patient's account. Uploading, storing and displaying ECG data in web applications work well and not interference occurs, data redundancy.

Keywords: Multipoint to Multipoint, ZigBee, Website