DESIGN AND BUILD THE SYSTEM AQCUITITION DATA AT MONITORING ELEVATION THE SEA BASED ON THE SMS (SHORT MESSAGE SERVICES) USING MICROCONTROLLER AT89S51

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Abstracs

System of aqcuitition is very important for measurement the sea water elevation is ebb tide of the sea water where this alteration is influenced by environment. The location of the sea is far away from the center of the city that is difficult control for monitoring elevation ocean as continue. This Final Project had been designed system of aqcuitition data with used GSM as media transmission and used SMS facility to send and received data from measured elevation the sea. System of aqcuitition using censor tranduser ultrasonik which controlled by mikrokontroller connec to handphone with serial cable and product data of measurement is sent by sms to receiver HP correlation with PC serial as server function. Experiment of the system send data with continue and periodic had time delay 11,2 second with system had been integrated and 11,8 second with system hadn’t integrated. Aqurasion of measurement system of aqcuitition instrument is 98,33% and error from measurement in realplant is 1,77%.

Keyword: Generator, ultrasonic transducer, SMS.