Ultrasonic Application Wave for
The Measurement of Water Level

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ABSTRACT

In this Final project is being designed and made by a system measurement of level of the water by exploiting ultrasonic tranducer. Monitoring system of water level used to watch the circumstance water level. Measurable water level use the ultrasonic wave processed use the Atmega16 microcontroller and will be displayed in LCD (Liquid Crystal Display).

Ultrasonic couple Tranducer (Tx And Rx) placed above facing water surface. Ultrasonic waves transmitted by tranducer Tx with frequency 40KHz. Bound wave accepted by tranducer Rx and transmitted to up-counter system, time difference go through the ultrasonic wave from tranducer Tx up to accepted by tranducer Rx compare diametrical with the water level. So that got a time data go through the which then processed by Microcontroller. Data from Mikrokontroller detected the the water level is later then presented at LCD (Liquid Crystal Display). After the measurement displayed the water level with error 10 percent

Keyword : tranducer, ultrasonic, water level sensor