

## ABSTRACT

At present PDAM water users are still many uses flowmeter manuals and customer convenience in obtaining release of the water used is still based manual as well. Sources report from the taps there are still persons who manipulate data to the disadvantage of customers.

In the present study, attempted to implement a microcontroller technology on manual flowmeter with digital display by utilizing optocoupler as sensor inputs to ATmega8535 which serves to calculate the rotation flowmeter which is then processed by a microcontroller which already contained the program then the results are displayed on the display. There are two views, the first view cubication used and the amount of the price. Then have designed and implemented a system to deliver information via GSM modem based microcontroller. Modem used in this application is m1306b wavecom GSM modem. Mode used is sms text mode, and activated via AT command.

Results in the can on this system, is the use of water taps cubication value that has an accuracy value 0.99 will be converted to rupiah and will be sent automatically to the customer via SMS in real time at the end of the month and after the results are displayed on the LCD will be reset back time .

**Keywords : ATmega8535, SMS, *flow meter*, *optocoupler*.**