

ABSTRACT

The water dispenser is a device that is useful to process the gallon water to get of plain water, hot or cold with a manual. For that reason, have been created the idea to create an automatic water dispenser in which the use of the manual valve is replaced with an automatic valve and with the SMS Gateway system.

In this Final project has been realized an automatic water dispenser for ease of user while taking a drink of water which also features an automatic sms to the depot of water when the water has run out. The working principle of this tool is to use an infrared sensor where this sensor is used to determine the glass or cup. When the sensor is blocked by glass, the sensor data is passed to the microcontroller that functions as a signal processing of both the sensor and then an electric solenoid valve or valves will automatically eject the water. As for the features automatic sms system using SMS Gateway is a device controller support in the implementation of this automatic water dispenser that uses a GSM modem.

Design and implementation of these tools can facilitate and make users more comfortable to take water automatically to the size of the maximum width and height of the glass is 7.5 cm and 16 cm and also the user does not need to manually sms to order refills of water. With a total power needed for pushing the water dispenser is 362.4 W and the average time required to reach the water as high as 5 cm in the hot water faucet is 2 minutes, while for plain water is 4 minutes.

Keywords : ***Water dispensers, infrared sensors, microcontrollers, solenoid Valve, SMS Gateway***