

Liquid Level Monitoring System using GSM Module

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Abstract: The paper deals with the design and implementation of a system for monitoring the level of liquid. The hardware of the solution is based on Arduino Mega platform with GSM sending data and level measurement. The paper describes the developed hardware and software. We live in a world which is moving at such a fast pace that everything if automated will help us to keep our lives going. The project on liquid level monitoring and control system using GSM with the help of Arduino UNO microcontroller it will help us to know when the water in our tanks is full or empty. This paper introduces the development of a Liquid level monitoring system with the integration of the GSM module to inform the person in charge of a short message service (SMS). The liquid level is monitored and its data is sent via SMS to the target professional's cell phone when it reaches a critical level.

Keywords: GSM, SMS, Ultrasonic sensor, Liquid Level, Arduino UNO Microcontroller

REFERENCES

- [1]. Islam, N.S. Wasi-ur-Rahman, M. An intelligent SMS-based remote Water Metering System. 12th International Conference on Computers and Information Technology, 2009, 21-23 Dec. 2009, Dhaka, Bangladesh.
- [2]. Mohd Helmy Abd Wahab, Siti Zarina Mohd Muji, Fazliza Md. Nazir. Integrated Billing System through GSM Network. In Proceeding of 3rd International Conference on Robotics, Vision, Information and Signal Processing 2007 (ROVISP2007), Penang, 28 – 30 November 2007 [3]. Mohd Helmy Abd Wahab, Azhar Ismail, Ayob Johari and Herdawatie Abdul Kadir. SMS-Based Electrical Meter Reading. In Proceeding of International Conference on Rural Information and Communication Technology 2009 (r-ICT), 17 – 18 June 2009, Bandung, Indonesia
- [4]. Taha Landolsi, A. R. Al-Ali, Tarik Ozkul, and Mohammad A. Al- Rousan. Wireless Distributed Load-Shedding Management System for Non Emergency Cases. International Journal of Electrical and Electronics Engineering 4:7 2010. pp. 453 –460.
- [5]. Malik Sikandar Hayat Khiyal, Aihab Khan, and ErumShehzadi.” SMS Based Wireless Home Appliance Control System (HACS) for Automating Appliances and Security”, Issues in Informing Science and Information Technology. Vol. 9. pp. 887 –894. 2009.
- [6]. Al-Ali, A.R. Rousan, M.A. Mohandes, M. “GSM-Based Wireless Home Appliances Monitoring & Control System”, Proceedings of International Conference on Information and Communication Technologies: From Theory to Applications, pp 237-238, 2004.
- [7] Abdullah, A. (2008). ; Eater Level in Tank acing Sensors and PID Controller. Btech Thesis, University Malaysia Sarawak, Sarawak, 123 p.
- [8] Microcontroller Based Automated Water Level Sensing and Controlling: Design and Implementation Issue Proceedings of the World Congress on Engineering and Computer Science, pp 220-225.
- [9] Osama Mahfooz, Mujtaba Memon, and Asim Ifikhar, “Project Review on Water Level Sensing Using PLC,” Journal of Engineering & Technology Science, vol. 2, no. 2, pp. 160-170,2012.
- [10] Jagadesh Boopathi, “555 Timer Based Water Level Controller,” Electronics Tutorials by Jagans india, Inc., 23 June 2013.