

AUTOMATIC

WATER LEVEL

CONTROLLER



Automatic Water Level Controller Using Attiny13a

Shaifuddin Shafie



Automatic Water Level Controller Using Attiny13a:

Water Level Controller Harpreet Kaur Channi, Harpreet Kaur Mridul Nayyar, 2019-09-22 In most houses water is first stored in an underground tank UGT and from there it is pumped up to the overhead tank OHT located on the roof. People generally switch on the pump when their taps go dry and switch off the pump when the overhead tank starts overflowing. This results in the unnecessary wastage and sometimes non availability of water in the case of emergency. The simple circuit presented here makes this system automatic i.e. it switches on the pump when the water level in the overhead tank goes low and switches it off as soon as the water level reaches a pre determined level. It also prevents dry run of the pump in case the level in the underground tank goes below the suction level. In the figure the common probes connecting the underground tank and the overhead tank to 9V supply are marked C. The other probe in underground tank which is slightly above the dry run level is marked S. The low level and high level probes in the overhead tank are marked L and H respectively. When there is enough water in the underground tank probes C and S are connected through water. As a result transistor T1 gets forward biased and starts conducting. This in turn switches transistor T2 on. Initially when the overhead tank is empty transistors T3 and T5 are in cut off state and hence pnp transistors T4 and T6 get forward biased via resistors R5 and R6 respectively. As all series connected transistors T2, T4 and T6 are forward biased they conduct to energise relay RL1 which is also connected in series with transistors T2, T4 and T6. Thus the supply to the pump motor gets completed via the lower set of relay contacts assuming that switch S2 is on and the pump starts filling the overhead tank. Once the relay has energised transistor T6 is bypassed via the upper set of contacts of the relay. As soon as the water level touches probe L in the overhead tank transistor T5 gets forward biased and starts conducting. This in turn reverse biases transistor T6 which then cuts off. But since transistor T6 is bypassed through the relay contacts the pump continues to run. The level of water continues to rise. Stability of Automatic Water Level Control and Self-excited Oscillation in Open Canals I. Varga, 1981

Automatic Liquid Level Detection and Refill in a Container Using Ultrasonic Module Narayana Mayya, 2016 Abstract The need to conserve water has increased with adverse weather conditions due to global warming. The proposed embedded system model provides an economical method in preventing unmonitored water loss from storage facilities. The model consists of an ultrasonic level controller that is interfaced with a microcontroller. Using sonar the delay between the transmitted and received signals is used for finding the liquid level. When the level of a liquid falls below a certain point the pump automatically starts and continues pumping until the required liquid level is reached. The pump operates using the signals received from a microcontroller and uses a relay mechanism. A step down transformer, a bridge rectifier, a capacitive filter and a voltage regulator convert the AC to DC voltage level of 5V to operate both the microcontroller and Liquid Crystal Display LCD. Results show the level measurement is unaffected by the physical properties of a liquid.

Development a Water Level Measurement for Controller Using Locked Loop Technique Shaifuddin Shafie, 1990 **Xbee-based Wireless**

Automatic Level Control for Cascaded Water Tanks Using PLC Hassan Asere, 2015

Wireless Technology has been always the goal for automation industry and control systems world because of the many applications that can take the advantage it yields. Many industries for the past decades have been working extensively to overcome the issues which are being an obstacle toward the development of such an important and essential field. The Wireless control technology in many aspects have shown major challenges in terms of cost, reliability, vulnerability, and availability. Yet it indicates a steady growth in maturity that demands a focused attention from different disciplines. However, the difficulties that wireless control network possesses are being tackled at many levels at research centers around the globe. This is in order to minimize these issues, contribution, and become almost as feasible as the conventional control network. In this project, we have built a stereotype design for two cascaded tanks where the level will be controlled in both tanks remotely by a PLC system through two Xbee wireless control modules. What makes this project challenging and valuable is that it will utilize the Xbee wireless modules along with the PLC into the control portion where it involves multiple controllers or PID's control circuit for the pump and other devices. The objective of this project is to build a small scale process to be controlled through wireless control network and to evaluate the wireless control network in industrial type environment. The evaluation will cover many aspects that affect directly the performance of any control system of any process, especially the tanks where they are considered the perfect application for it. It is worth mentioning that this project involved so many circuits design to interface with the wireless devices, transmitters, or the PLC I/O cards where the compatibility issue can be eliminated for real applications.

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