

Smart Water Meter to Identify Water

Abstract;

Automation is a need of time. Today in this modern era automation helps us to save time as well as money. Most of the people prefer fresh water of municipality water pipe line. For that one has to pay for it. Water meter connected to the water pipe line supply at home measure the amount of water used in a particular home and that reading is shown on it. . Reading of meter is then noted down for billing purpose. Air pressure 5 to 10 minutes before arrival of water also increases the reading on the meter thus without any consumption of water we pay for it. Our project Smart Water Meter is an Arduino based project. It is a prototype in which a flow meter along with water sensor is attached before the water meter. Principle of flow meter is such that it can give the amount of water coming through the pipeline. Wings in the flow meter rotate with the air and water pressure in the pipe line. Thus readings before the water and after the water are calculated to save our money. We have used various components in this project such as flow meter, water sensor, driver IC, relays LCD and Arduino. All these components are controlled using Controller Atmega 328. The main aim of this project is to save our money which we pay for air pressure.

Block Diagram:

