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(57) Abstract :

ABSTRACT IoT based Automation of Water Supply and Theft Identification This invention proposes an embedded based remote water monitoring and theft prevention system by recording the flow rates at the consumer/user end. Each consumer is provided with an embedded based water flow monitoring system consisting of a microcontroller to record the flow rate using a flow sensor and to transmit the same to a remote monitoring station using wireless transmitter and it is also provided with an electrically operated solenoid valve to supply water to the consumers. The valve turns on/off to stop the water supply whenever the flow rate exceed a predefined limit. The solenoid valves are also controlled using real time clock to control flow of water accordingly for a fixed duration of time. An IoT module for wireless communication is provided so that the information can be passed to particular responsible officerTMs cell phone for immediate action.

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