

Automatic flow rate measurement and control of water flow meter using telemetry

Seeking parties interested in licensing and commercializing of technology.

Applications:

- To measure and control the fluid flow rate

Technology Description:

This invention is develops a new technique for measures and contols the fluid flow automatically, transfer and receive data from central unit through a GSM module. A Hall effect sensor is placed close to the water meter turbine. Its can acquire the magnetic pulse from the turbine magnet and transmits electrical pluse to the Arduino nano (ATmega328-processor). Its converts the magnetic pulse to an actual flow rate. The converted data send out to the PC through the GSM module. The Arduino nano is interfaced with a Solenoid valve, if any illegal activities like tampering is performed the Solenoid valve stops the flow rate with an alert message sent to the authority.

Advantages of the Technology:

- To eliminate the manual meter and placing a newly developed flow rate detect and control device
- If the device is manipulated or tampered, the Arduino Nano will send an alert message to the authority and initiate the solenoid to shut the valve.

Development Status:

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Technology Transfer from the institute:

For more details

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