

PIPE LEAK LOCATION DETECTION BASED ON WATER DISCHARGE ANALYSIS USING BLYNK INTERNET OF THINGS (IOT) BLOW METER SENSOR TECHNOLOGY

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ABSTRACT

Pipe leak detection based on water flow analysis using blynk internet of things (IOT)-Based flow meter sensor technology:

Leaks in water pipe networks are a significant problem that can cause losses for companies. To address this, an Internet of things (IOT)-based pipe leak detection system was developed using Flow meter sensors and the blynk platform. This system monitors water flow in real time at multiple points along the pipe to detect differences in flow that indicate leaks. Data from the sensors is sent to an ESP8266 NodeMCU connected to the internet, enabling remote monitoring via the blynk application. This system allows for faster and more accurate identification of leak locations, facilitating repairs and minimizing losses due to water leaks.