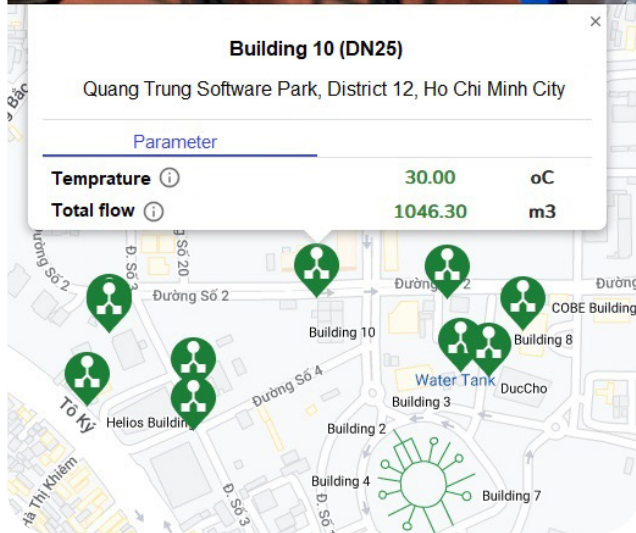


GROUNDWATER AND WATER SUPPLY MONITORING SYSTEM

sitech
Smart & Innovative Technology



PRODUCT FEATURES

- The LoRaWAN technology-based automatic groundwater monitoring and water flow measurement system uses devices that collect water flow data and send it to a central management software via the LoRaWAN network at a frequency of 920-923 MHz.
- Users can view and extract data remotely through a website or mobile application.
- In case of an unusual incident such as a pipe burst, the system automatically sends a warning message to the user or water supply management officer via the mobile application.
- The water flow meters and water level sensors are of high quality, supplied by leading reputable manufacturers worldwide.
- The LoRa Node device uses AA batteries for a lifespan of 3 to 5 years.
- The product is manufactured domestically, offering a reasonable price compared to imported products.

TECHNICAL SUPPORT

SITECH (Intelligent and Innovative Technology Joint Stock Company) brings together a team of highly skilled and experienced engineers specializing in the research, design, manufacturing, and supply of solutions and equipment for automated monitoring, pollution warning, and automation.

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SPECIFICATIONS

LORA NODE DEVICE

- Compact, flexible device for easy installation.
- Electronic water meter certified/calibrated by the competent authority.
- RS-232 serial communication, pulse signal reading.
- Energy-saving design.
- Integrated battery provides up to 8 years of operation (depending on data transmission level).
- Operating voltage: 3V to 5V
- Operating temperature: -20 to +50 °C

LORA GATEWAY DEVICE

- Compact, flexible device for installation.
- RS-232 serial communication, USB.
- Network communication: RJ45 cable, WiFi or 4G.
- Operating voltage: 5VDC or 220VAC.
- Current consumption: Maximum 2.5A (for 5VDC).
- Operating temperature: -35 to +70 °C

DATA ACCESS

- Website and mobile app management
- User-friendly Vietnamese interface
- Alerts via website, mobile app, and text message
- Visual display in map, graph, and table format
- Access control based on user roles
- Works well on both computers and mobile phones

REMOTE OPERATION

- Change measurement/data transmission frequency
- Change alert thresholds
- Customize new functions according to customer requirement

ENERGY

- LoRa Node uses 3 AA batteries, providing 3 to 5 years of operation (depending on data transmission frequency)
- LoRa Gateway uses 220V mains power or solar power.

OPERATION CONDITIONS

- Humidity: 0 - 100% RH
- The LoRa Gateway installation location must have 4G, WIFI, or RJ45 cable network access.

