SUSTECH
INTEGRATED TECHNOLOGIES

LoRa Alliance® Member

All-in-One Remote Monitoring Solution for Water network Management

SUSTECH
INTEGRATED TECHNOLOGIES

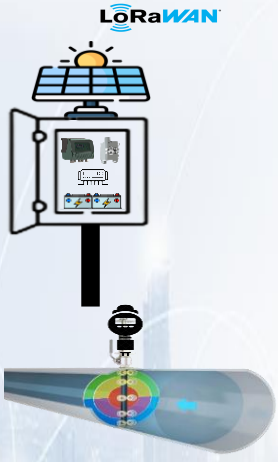
Next Generation Noise Logging Technology on Water Loss Management

The importance of detecting and pinpointing the leak by continuous online monitoring of water flow & pressure in the water distribution network and installing a LoRa/NB-IOT acoustic datalogger.

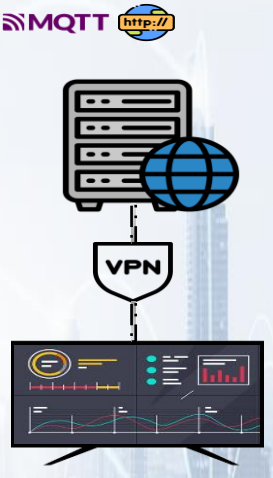
protection：IP68
Diameter：Φ60mm*124mm
Housing material：PC & stainless steel
Temperature：-10°C to +60 °C
Sensitivity：140pC/(m/S²)
Communication： LoRa/NB-IoT
Battery life：≥8 years

SUSTECH
INTEGRATED TECHNOLOGIES

Our Solution



LoRaWAN®



Modbus-to-LoRaWAN converter with Externally powered 24VDC continuous, it serves as Modbus interface for the flowmeter and at the same time controls and monitors power to it. This connects to the FM converter via RS485 taking all the Modbus parameters and transmitting to a LoRaWAN gateway with backhaul 4G.

Central Controller, a crucial component in LoRaWAN infrastructure that manages and controls the network's functionality and connectivity. It acts as a central hub for handling device registration, data routing, and security protocols. The LNS plays a vital role in ensuring efficient and secure communication between LoRaWAN devices and the application servers.

- Real-time Monitoring
- Historical Data Analysis
- Wireless Connectivity
- Environmentally Sustainable
- Remote Accessibility
- Optimization and Efficiency
- Customizable Alerts
- User-Friendly Interface

Our proposed solution is to collect the status data from the Insertion flowmeter, pressure & Datalogger transmitter that support Modbus and send it to SCADA via Modbus-to LoRaWAN converter and then LoRaWAN-to-4G Gateway.

SUSTECH
INTEGRATED TECHNOLOGIES

Available Data

- LEAK DETECTION
- WATER FLOW
- WATER PRESSURE
- SOLAR SYSTEM DATA
- PANEL TEMPERATURE
- BATTERY STATUS

Office 1:
GF Office Accelerator Building,
Masdar City
T : +971 2 621 4995

Office 2:
No. 101, Entrance No. 3
Rabdan Mall
T : +971 2 626 8774

info@sustechme.com I www.sustech.ae I P.O. Box 7123, Abu Dhabi, United Arab Emirates