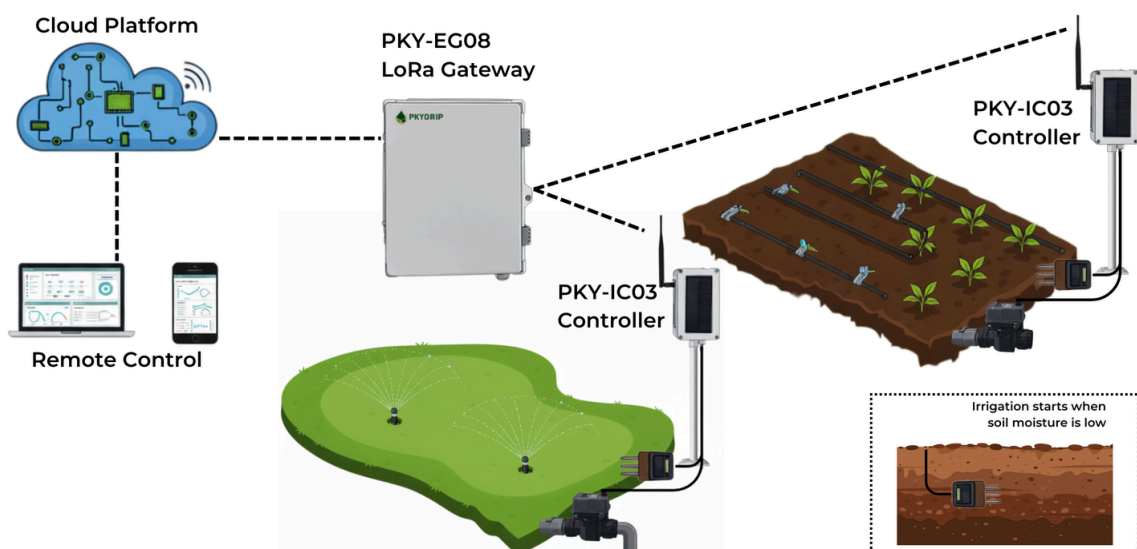


Long-distance reliability for modern farms



Key Advantages

- **Long-Range Communication**
Supports **LoRa 433 MHz** transmission with stable coverage of **over 2 km in open fields** — ideal for large farms and orchards.
- **Low Power Operation**
Solar-powered with a built-in lithium battery, designed for ultra-low consumption, long lifespan, and minimal maintenance.
- **Wireless Deployment**
No complex wiring required — quick to install and easy to expand as your farm grows.
- **Cloud Integration**
Real-time monitoring, remote scheduling, and complete irrigation history accessible anytime, anywhere.
- **Precision & Automation**
Soil moisture is monitored in real time — irrigation starts automatically when moisture is low, ensuring efficient water use and healthier crops.
- **Highly Scalable**
One gateway can manage up to **100 controllers**, making it suitable for large-scale projects.

System Components

LoRa Wireless Gateway

Model: PKY-EG08

Function:

Acts as the system's core, collecting data from terminal devices and uploading it to the cloud, while also sending control commands.

Features:

- Supports **LoRa 433MHz** communication with >2 km range (open field)
- Supports **MQTT**, **HTTP**, and **Modbus-TCP** protocols
- Supports **Wi-Fi / 4G / Ethernet** uplink
- Can manage up to **100 controllers** simultaneously
- Industrial-grade design for harsh environments
- Remote configuration and firmware upgrades



LoRa Wireless Irrigation Controller Terminal

Model: PKY-IC03

Function:

Executes irrigation commands locally by controlling solenoid valves or pumps.

Features:

- **LoRa 433MHz** communication with automatic binding to gateway
- Controls up to **2 solenoid valves**
- **Solar-powered** (with lithium battery), low maintenance
- Supports **timed irrigation**, **manual trigger** or **sensor-based logic**
- Weatherproof enclosure for field deployment



Application Scenarios

Our LoRa Wireless Irrigation System is suitable for a wide range of applications, including:

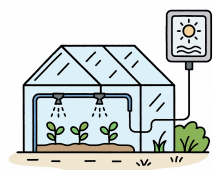


Open-Field Farming

Zonal irrigation ensures optimal water use across large fields.

Orchards

Automated irrigation by soil moisture for healthier trees and better yields.



Greenhouses

Seamlessly integrated with environmental monitoring for smart fertigation.

Landscaping

Remote control reduces labor and maintenance costs
in urban landscaping.



Smarter Irrigation Without Limits

Harness the power of LoRa wireless technology to manage irrigation with long-range connectivity, ultra-low power consumption, and precise irrigation control. Whether in large farms, orchards, greenhouses, or urban landscapes, our system delivers reliable performance and smart water management.

👉 **Contact us today to bring LoRa wireless efficiency to your fields.**