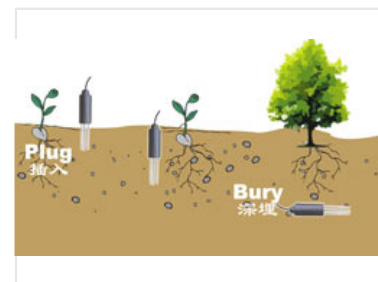


Wireless Moisture-Controlled Solar Irrigation System

This system uses wireless sensors to monitor soil moisture levels and trigger irrigation automatically. Solar power provides sustainable operation, while wireless connectivity enables remote monitoring and control.



Overview

Smart Agricultural Irrigation

This advanced wireless moisture-controlled solar irrigation system optimizes water usage by automatically monitoring soil moisture levels. Designed for versatile agricultural environments, it allows for both surface and deep-soil sensor placement to accommodate various crop types. The system supports complex setups with up to 40 wireless irrigation zones and integrates with both wired and wireless pump controls for comprehensive field management.

System Capabilities

Key Control Features

- Automated moisture-based irrigation
- Rain detection shut-off
- Manual emergency override
- Centralized main controller

Wireless Zones

40 zones

Valve Compatibility

1" to 3" latching valves

Power and Connectivity

Pump Control Support

- 1 wired pump control (via relay)
- Up to 3 wireless pump controls (via relay)

Power Supply

Solar Powered, Wireless

Installation and Usage

Sensor Installation

Surface • Deep-soil

Soil Compatibility

All soil types