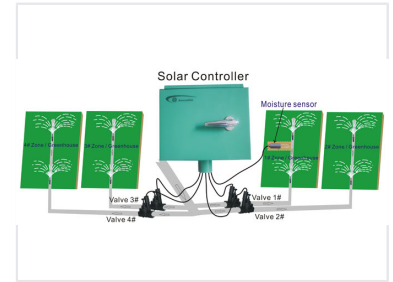


Solar Powered Automatic Irrigation Controller

This solar-powered irrigation system automatically controls up to four valves. It uses moisture sensors to analyze field samples and open/close valves as needed, optimizing irrigation and reducing setup costs.



System Overview

Advanced Solar-Powered Irrigation Control

This advanced moisture-controlled, solar-powered irrigation system is designed to optimize water usage in agricultural, golf course, and residential settings. By utilizing real-time soil moisture analysis, the controller autonomously manages irrigation zones to prevent waste and reduce operational costs. The standalone green energy design makes it an ideal solution for remote areas or locations with limited water pressure.

Technical Capabilities



Advanced connectivity diagram featuring remote management capabilities.

Valve Compatibility

Setup Type	Matching Valve
Latching valve	6V-12V latching valve (Solar powered)
12V DC valve	12V DC valve (Solar powered)
Switch	d24 AC/DC Valve (External power)
Zone Capacity	4 zones

Operational Features



Workflow diagram showing soil moisture data collection and automated valve response.

Enclosure Options

- Painted stainless steel box
- Painted zinc plated iron box

Operating Modes

Moisture-based, Timer-based

System Performance

Efficiency Highlights

4 valves

Max Valves Controlled

100 % Solar

Sustainable Energy Source