



iDUS G-100 A



iDUS Moistsense Sensor

Introducing the **iDUS G-100 A Irrigation Controller.**

The G-100 solar powered controller uses local environmental sensing to remove the guesswork involved in determining irrigation zone watering duration, resulting in more efficient water use and “set and forget” irrigation automation for the end user.

The G-100 uses daylight and soil moisture sensors to intelligently water crops, landscaping and gardens. Its smart controls allow the user to set the exact amount of soil moisture desired, removing the guesswork involved in determining watering times and how much to water. The G-100 improves plant health by automatically providing just the right amount of water needed in the soil.

How does it work?

The G-100 monitors local environmental conditions, and decides whether or how much to water and then directly operates a conventional irrigation zone valve or pump, all without any user involvement. It eliminates the need for timers, computer interfaces, and weather tracking systems.

The user initially calibrates the unit to the desired moisture level – a two minute task. The unit then automatically activates every day at a user-set time. If the soil moisture is above the user specified level, the unit sleeps and repeats the process the next day. If soil moisture is below the user specified level, the G-100 initiates a timed “smart pulse” watering cycle after which soil is retested, and then repeats the process if more water is needed. Plants are only watered to the user specified level, saving water and maximizing plant health. iDUS’s “moistsense” sensor allows for flexible installations depending on local conditions and plant type.

Easy to use.

The G-100 is attached to a post and its soil moisture sensor is buried adjacent to the roots of a ‘typical plant’. The solar panel is mounted and connections to an existing pump or solenoid zone valve are made. With the soil moisture beside the sensor at the desired level, the user pushes 2 buttons on the unit’s face to calibrate the moisture setting to “just like this.” Watering can subsequently be altered by pushing the “MORE” or “LESS” buttons. The unit can be set to start at any interval after dawn.

The moisture sensor is unique to the G-100; it is a capacitance-type unit that is comprised of a versatile flexible looped wire sensing coil 12” in length which is connected to the G-100 by an 11 ft. cable. The sensor/controller measures changes in capacitance of the wire loop. These changes are proportional to the amount of soil moisture present. The sensor is buried in compacted soil adjacent to the root zone of the plants being irrigated. Then the controller operates pumps or valves daily to achieve a desired “just like that” soil moisture level as set by the user.

Key Features.

The G-100 starts itself automatically and then waters only as needed, eliminating the need for timer programming and adjustments, irrigation level monitoring or manual irrigation activation and termination. It requires no external control or power wires, making retro-fits and original installations quick and easy

- Solar powered.
- Intelligently water crops, gardens and landscaping.
- Remove the guesswork involved in determining watering times.
- Home, business or agricultural applications.
- Conserves precious water resources, and improves plant health and productivity.