Acclima SC6/12 Plus Installation: well water system with electrical valves

This document is intended to aid in the wiring portion of the Acclima SC6/12 Plus soil moisture sensor system installation on an existing irrigation system with a pump and electric irrigation valve/s. This document should be used alongside the manual provided by the manufacturer. When used correctly these devices can produce water savings and maintain high quality landscape conditions. Care should be taken to install these systems properly, including calibration of the system (see “Automatic Threshold Setting” in the Acclima manual). The threshold setting is the percent water content at which the soil moisture sensor system will prevent irrigation from occurring. If the setting is too low for your soil conditions, then too many irrigation events could be bypassed, causing a reduction in landscape quality. If the system threshold is too high, the irrigation may be allowed when it is not necessary; reducing possible water savings. This material has been provided as a part of the Irrigation Retrofit Program funded by the Miami-Dade County Water and Sewer Department.

IMPORTANT: Always turn off the power source before working with any electrical wiring.

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- Disconnect and remove your analog timer.
- Connect the black/green/white AC power wires to those on your SMS controller.
- Connect your pump start relay (PSR) to the controller (one wire in MV port, and the clear or white wire in a COM port).
- Bury your soil moisture sensor in the nearest full-sun, grass covered, irrigated area and wire it to the electric valve. Hot wire connecting valve to timer is disconnected. Valve-end of hot wire is connected to the black wire from the sensor. Timer-end of hot wire is connected to the red wire of the sensor. White wire of sensor is connected to the common wire.
- When setting up your irrigation schedule, all irrigation zones should be programmed as sensor zones (see section in the Acclima manual titled: “Programming the Controller”).
• Connect your pump start relay (PSR) to the controller (one wire in MV port, and the clear or white wire in a COM port).
• Electrical valves should be wired similarly to other digital timers. Hot wires should be wired to the corresponding zone port and common wires should be wired to the common port.