

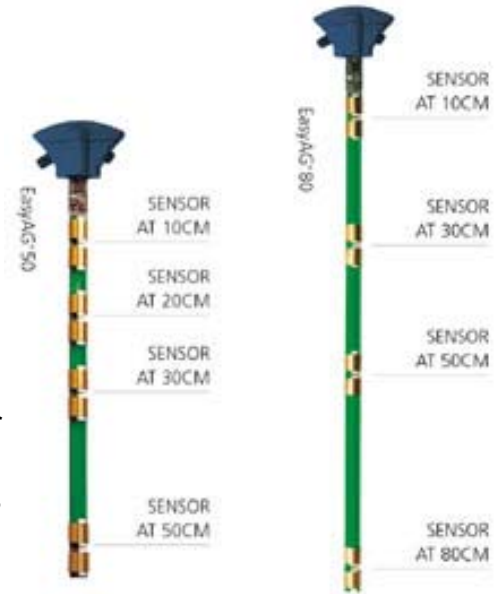
# SOIL MOISTURE MONITORING



**FIELD CONTROLLER-** is programmed to take soil moisture measurements on a preset interval, and transmit the data to the internet site for viewing and report generation by the user. Alarms are generated and transmitted instantly to alert the manager of low moisture conditions. The SDI-12 protocol used to communicate with the probes allows multiple sensors to be connected to each controller, and additional analog inputs allow other sensors to be used, including temperature, solar radiation, humidity, etc. The field controller is very portable, allowing the user to easily relocate the system where it is most needed.

**SOIL MOISTURE PROBES-** by Sentek combine ease of use and unmatched accuracy. Each sensor reads moisture at four levels, and can be installed in about 10 minutes. Available in either 20 or 32 inch models, the EasyAG probe uses electrical capacitance to make measurements.

The 20 inch probe has sensors an 10, 20, 30, and 50 centimeter depths, and the 32 inch probe has sensors at 10, 30, 50, and 80 centimeters. The ability to measure at multiple levels allows optimal water and fertilizer application at the root zone, not past it.



**AUTOMATED IRRIGATION CONTROL-** is easy with two independent control outputs from the field controller. Equipment can be started and stopped automatically, and the status inputs on the controller can monitor equipment function and report any abnormal operation, low fuel or oil, and report run-hours for maintenance.

## WHY MONITOR SOIL MOISTURE?-

- ▶ **INCREASE PROFIT** and crop yield / quality with the knowledge to make irrigation decisions.
- ▶ **REDUCE WASTE** by efficiently providing water and fertilizer to the root zone.
- ▶ **MINIMIZE MANPOWER REQUIREMENTS** by automating measurements and equipment control.

