

# MOISTURE SENSOR



## INFORMATION



making water work

since 1986

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The Calsense Model 1000-S Moisture Sensor is designed to send soil moisture readings directly to the Calsense irrigation controller. The ET2000 irrigation controller will automatically stop irrigation when the proper soil moisture level has been reached. The Model ET2000 irrigation controller using a Model 1000-S Moisture Sensor is an excellent enhancement to the Calsense water management system.

The Model 1000-S Moisture Sensor is of the solid-state tensiometer type and operates with the Calsense Model ET2000 irrigation controllers and beyond. The Calsense Model 1000-S Moisture Sensor provides consistent long-term soil moisture readings to the Calsense irrigation controller. The Moisture sensor electronics are encased in epoxy. There is no maintenance or calibration required for the life of the sensor. The model 1000-S Moisture Sensor readings are unaffected by temperature, salinity or changes in soil pH.

The moisture data is transmitted to the irrigation controller on the remote control valve wiring. Special wire runs between the irrigation controller and the sensor are not

necessary. The only additional wiring required is between the remote control valve and the model 1000-S sensor. The total maximum wire run between moisture sensor and the irrigation controller is 3,000 feet.

The Calsense model irrigation controllers (ET2000 and beyond), using the sensor to measure available water in the pore space of the soil, makes a decision before the start of each "Cycle and Soak" cycle whether or not to continue applying water. This decision is based on the actual moisture reading compared to the user-determined moisture set point. A representative station for each different climatic and plant zone is given a sensor and is known as a master station. Slave stations are stations without sensors and are assigned to a master station that share similar water requirements. The user chooses groups of stations controlled by the same sensor during initial setup. Stations can be easily changed or moved from one sensor to another through user friendly programming. A general guideline of one moisture sensor per four active valves works well to cover varying moisture needs.

Proper placement of the moisture sensor is important. Calsense will provide technical support at no-charge to assist in the proper location of the moisture sensor for the most efficient system.



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