



The new AM400 Version 3E average display shown with the protective cover removed.

INTRODUCING THE NEW AM400 VERSION 3E

A number of significant features have been added to the new AM400 Version 3E soil moisture data logger. The most notable of these is an average display which shows a graph of the average reading from selected soil moisture sensors with programmable high and low limit lines superimposed. When enabled, the average display shown above becomes the default display on the built-in LCD screen. If more detailed information is required, the grower can use the external pushbutton to sequence through displays showing graphs of the readings from each of the six individual soil moisture sensors.

The object of adding the new display is to help simplify irrigation scheduling in shallow rooted crops like onions, potatoes and berries where irrigation scheduling decisions are based primarily on soil moisture readings at a single critical depth. In these types of crops, the average display can be configured to graph the average reading from multiple sensors installed at the critical depth. This enables the grower to make most irrigation scheduling decisions based on information obtained from a single display. It also makes interpretation of the soil moisture data easier by averaging out extraneous localized variables that affect individual sensor readings.

Onions provide a good example of a crop where the new display is beneficial. In an onion field, the grower can install four of the six soil moisture sensors at 8 inches which is considered the critical depth and the remaining two at 18 inches. Day-to-day irrigation scheduling decisions can then be made based on the average display configured to show the graph of the average reading of the four sensors installed at the critical 8 inch depth. Displays showing graphs of the readings from the 18 inch sensors would only be viewed occasionally to check for deep percolation.

In addition to the average display, the new AM400 Version 3E loggers offer the following new features:

- 1) Programmable sample rate
- 2) Improved immunity to lightning damage
- 3) Automatic self-calibration check
- 4) Improved temperature correction
- 5) Selectable C/F temperature scale

For more detailed information regarding the new AM400 Version 3E soil moisture data logger contact:

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