## **Leaf Wetness Sensor**

For the Wireless Leaf & Soil Moisture/Temperature Station (6345)

The Leaf Wetness sensor detects the presence of surface moisture. The sensor is an artificial-leaf electrical-resistance type. It consists of a sensing grid, low-voltage bi-polar excitation circuit, and conductivity-sensing circuit. The Vantage Pro2 console measures the conductivity across the grid and displays the result as a moisture level, scaled from 0 to 15. The user may select the threshold level at and above which moisture-hour totals are accumulated.



The sensing grid is a gold-plated etched circuit on an epoxy-glass substrate; the excitation and sense circuits are encapsulated in black epoxy. The included mounting bracket holds the sensor at a 45° angle to simulate a typical leaf position and to permit runoff of excess moisture; it may be mounted on a vertical post, pipe, or stake, or on the Sensor Mounting Arm.

## **Specifications**

Gen	е	r	a	I
	S	۵	n	c

Sensor Type . . . . . . Artificial leaf electrical resistance

Excitation ...... Bipolar (3V nominal) built-in Time Constant ...... 2 seconds

Cable Type . . . . . . . . . . . . . . . . 4-conductor, 26 AWG Connector . . . . . . . . . . . . . . . . . Modular connector (RJ-11)

Recommended Maximum Cable Length (see Note 1). 200' (61 m) using 4-conductor 26 AWG cable

Material

**Dimensions** 

Data Available at Console and in WeatherLink

Dry/Wet Threshold . . . . . . . . . . . . . . . . . User-selectable

Update Interval . . . . . . . . . . . . . . . . . . 62.5 to 75 seconds

Alarms..... High and Low Thresholds from Instant Reading

Input/Output

Connections

 Yellow
 3 VDC

 Red
 Ground

 Green
 Output

## Notes

Increasing the cable length above the recommended maximum cable length causes measurement error in the form
of lower leaf wetness readings.