Leaf Wetness Sensor

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



6420

Vantage Pro2[™] Accessories

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.

General

Sensor Type Artificial leaf electrical resistance

Maximum Recommended Cable Extension 200' (61 m) using 4-conductor 26 AWG cable

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

Material

Mounting Bracket..... White powder-coated aluminum

Dimensions (length x width x height)

Sensor Output

Input/Output

Supply Voltage and Current 100 μA (typical) @ 3 VDC

Connections

Red Ground Green Output

Package Dimensions

| Product # | Package Dimensions (Length x Width x Height) | Package Weight | UPC Codes |
|-----------|--|------------------|----------------|
| 6420 | 5.75" x 4.25" x 3.25" (146 mm x 108 mm x 83 mm) | 1.0 lbs. (.5 kg) | 011698 00238 2 |