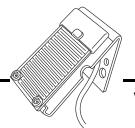
Leaf Wetness Sensor

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

Time Constant	
e: Increasing the cable length above the reco	mmended maximum cable length causes measurement error in the form of lower leaf wetness reading
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	
Substrate	Glass-reinforced, ceramic-filled laminate
Grid	1 oz. copper, nickel, and 50 μ inch gold plate
Mounting Bracket	White powder-coated aluminum
Dimensions (length x width x height)	
Leaf Wetness Sensor	
Weight	

Sensor Output

Resolution	. 1
Range	. 0 to 15
Dry/Wet Threshold	. User-selectable
Accuracy	. ±0.5
Update Interval	. 62.5 to 75 seconds

Input/Output

Supply Voltage and Current	100 μA (typical) @ 3 VDC
Output	2.5 to 3 VDC
Connections	
Yellow	3 VDC
Red	Ground
Green	Output

Vantage Pro2[™] Accessories

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