Multi-Purpose Temperature Probe

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

Vantage Pro2[™] Accessories

The Multi-Purpose Temperature Probe is for use with the Vantage Pro2 Wireless Soil Moisture/Temperature Station. The probe is designed to measure soil temperature in order to provide temperature compensation for the Watermark Soil Moisture Sensor.

The sensor is a precision platinum wire thermistor which produces a resistance change proportional to temperature. It is epoxy-encapsulated in a 316 alloy stainless steel body with vinyl strain relief. The 22 AWG direct burial cable is resistant to damage from pests, moisture or UV.

To ensure accurate readings when measuring outdoor air temperature, the Multi-Purpose Temperature Probe should be shielded from direct sunlight and other sources of reflected or radiated heat. We recommend the use of the Radiation Shield (#7714) for this purpose.

General

Se	ensor Type (see Charts) Platinum wire thermistor
Tir	ne Constant
	In Still Air
Att	tached Cable Length
Ca	able Type
Re	ecommended Maximum Cable Length (see Note 1)
	24 AWG Shielded Cable
Note:	There is no absolute maximum cable length. Increasing the cable length above the recommended maximum length causes an increased measure- ment error at a rate of approximately +0.24°F (+0.13°C) per 100' (30 m) of 22 AWG cable.
Ho	ousing Material
Ho	ousing Dimensions
We	eight

Sensor Output

Resolution and Units	1°F or 1°C (user-selectable) Historical Graph Data and Alarms: 1°F or 1°C (user-selectable)
Range	-40° to +150°F (-40° to +65°C)
Sensor Accuracy	±1°F (±0.5°C) typical
Update Interval	62.5 to 75 seconds

Input/Output Connections

 Black......
 Common

 White
 Temperature (variable resistance to common)

Charts

The chart and graph on the left show the resistance of the sensor. The chart on the right shows the cable-induced error of an un-calibrated sensor using 100' (30 m) of cable.



Sensor Resistance Readings



Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
6470	5.50" x 4.50" x 1.50" (140 mm x 115 mm x 38 mm)	6.0 oz. (.2 kg)	011698 00241 2