# **External Temperature Probes**

with RJ Connector and 25-Cable



## Vantage Pro2<sup>™</sup> Accessories

The External Temperature Probes may be used with the wireless Weather Envoy (6316), Envoy8X (6318), Wireless Temperature Station (6372), or the Anemometer/Sensor Transmitter Kit (6330). They can be used to measure air, soil or water temperatures.

The sensor is a precision platinum wire thermistor which produces a resistance change proportional to temperature. In the Stainless Steel model (6475), it is epoxy-encapsulated in a 316 alloy stainless steel body with vinyl strain relief. In the External Temperature Probe (6477), it is sheathed in vinyl.

To ensure accurate readings when measuring outdoor air temperature, the 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

Sensor Type (see Charts) Platinum wire thermistor
Time Constant
In Still Air
In Liquid
Attached Cable Length
Cable Type
Recommended Maximum Cable Length (see Note 1) 200' (61 m)
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. See Figures 1 and 2, on page 2.
Housing Material
6475 316 alloy stainless steel housing with vinyl strain relief
6477 Black vinyl
Housing Dimensions
6475
6477 0.25" diameter x 1.25" long (6.5 mm diameter x 32 mm long)
Weight

### **Sensor Output**

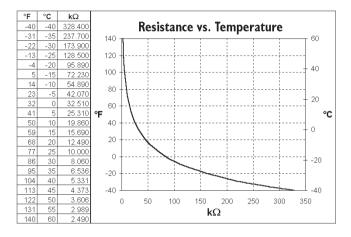
Resolution and Units	1°F or 1°C (user-selectable) Historical Graph Data and Alarms: 1°F or 1°C (user-selectable)
Range	-40° to +150°F (-40° to +65°C)
Sensor Accuracy	±1°F (±0.5°C) typical (see Figure 3)
Update Interval	
When used with Wireless Temperature Station	
or Anemometer/Sensor Transmitter Kit	10 - 12 seconds

When used with Weather Envoy or Envoy8X..... 1 minute

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### Charts

Figure 1 shows the resistance of the sensor. Figure 2shows the cable-induced error of an un-calibrated sensor using 100' (30 m) of cable.



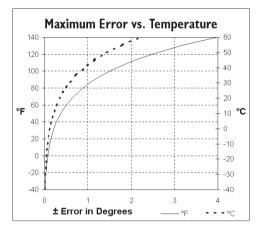


Figure 1

Figure 2

Figure 3 shows temperature accuracy for F and C.

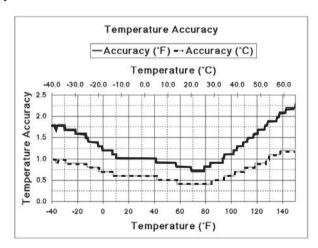


Figure 3

# **Package Dimensions**

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
6475	5.50" x 4.50" x 1.50" (140 mm x 115 mm x 38 mm)	5.8 oz. (.16 kg)	011698 009497
6477	5.50" x 4.50" x 1.50" (140 mm x 115 mm x 38 mm)	5.5 oz (.156 kg)	011698 009527