For the Wireless Soil Moisture/Temperature Station (6361)

6470

VANTAGE PRO

The Multi-Purpose Temperature Probe is for use with the Vantage Pro 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.

The WATERMARK soil moisture sensor is a product of the Irrometer Company, Inc.

Specifications

General

Console Data (as displayed on Vantage Pro consoles)

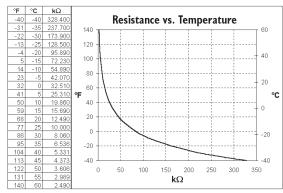
Input/Output Connections

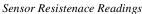
Black ... Common

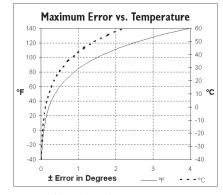
White ... Temperature (variable resistance to common)

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 uncalibrated sensor using 100' (30 m) of cable.







Cable-Induced Temperature Error

Notes

1. There is no absolute maximum cable length. Increasing the cable length above the recommended maximum length causes an increased measurement error at a rate of approximately +0.24°F (+0.13°C) per 100′ (30 m) of 22 AWG cable.