

For Weather Monitor II, Wizard and Perception II Consoles

Introduction

This application note contains instructions for extending the reach of a Weather Monitor II inside temperature probe without loss of accuracy.

Tools and Products Needed

You will need the following tools and products to complete this project:

1. Weather Monitor II, Wizard or Perception II Console
 2. Standard External Temperature Sensor or Standard Stainless Steel Temperature Probe
 3. Screwdriver
 4. Wire Cutter
 5. Wire Stripper
 6. Soldering Gun
 7. Hot Melt or Non-conductive Epoxy
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How to Extend Inside Temperature

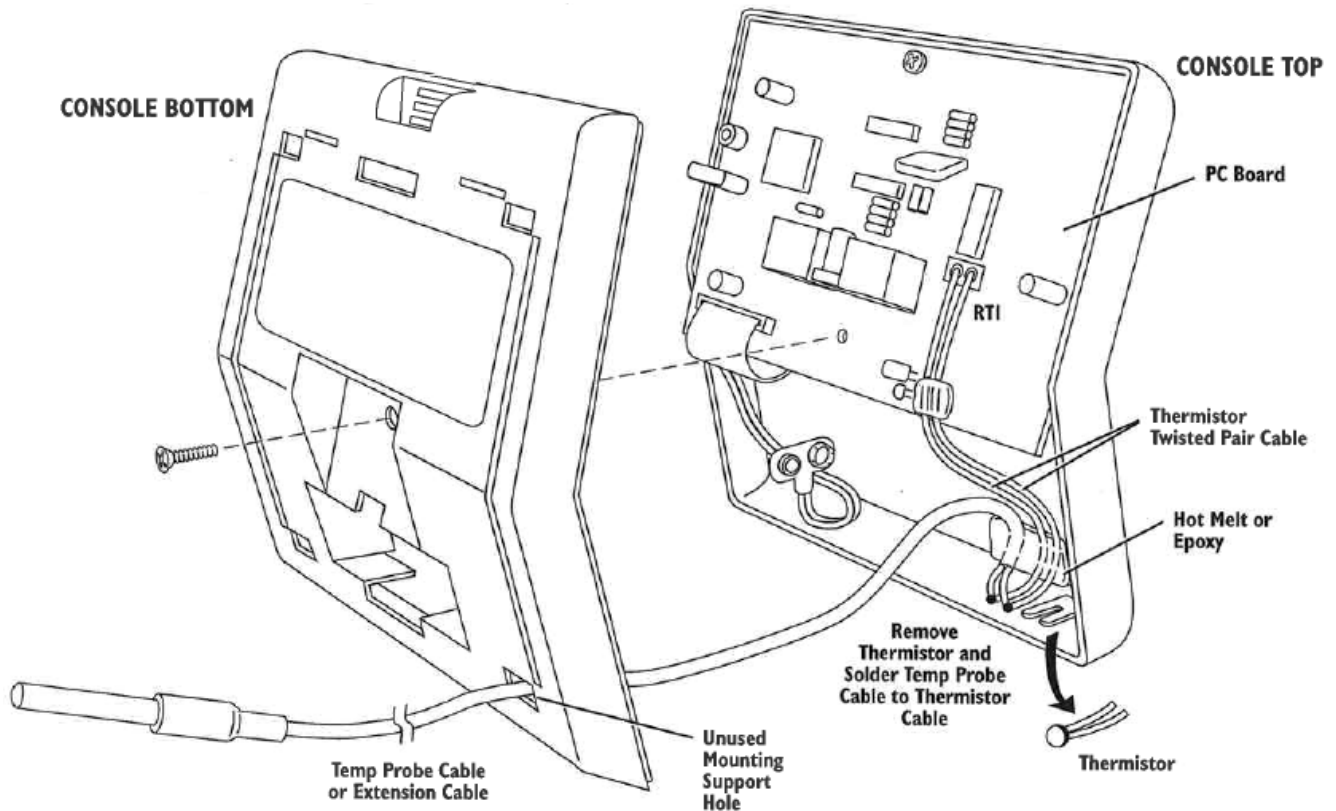
Follow the steps below to extend the temperature sensor contained inside the console of the Weather Monitor II®, Wizard or Perception II using a Standard External Temperature Sensor or Standard Stainless Steel Temperature Probe. Using the external sensor or probe and extension cables, you may extend up to 200 feet (61 m) without degradation of accuracy. See the illustration on the following page.

1. Remove all power from the console by disconnecting the power adapter and battery.
2. Disconnect the junction box cable from the junction box. You may leave the sensor cables connected to the junction box.
3. There is a warning label on the bottom of the console (in the center). Remove this label to reveal the screw underneath. Remove this screw and separate the console bottom from the console top.

Note: opening the case voids your warranty.

4. Locate the thermistor at the bottom right of the top half of the console, at the end of a pair of wires.
5. Cut off the thermistor, leaving the tinned leads of the thermistor wires exposed.
6. Cut the cable on the temperature sensor or probe (whichever you are using) or on the extension cable (if you are extending the sensor beyond the reach of the sensor cable itself) near the plug, removing the plug.
7. Strip approximately 1/2" (12-1/2 mm) from the ends of the four wires in the sensor, probe, or extension cable.
8. Twist together the yellow and green wires and solder. Do the same with the red and black wires.

9. Feed the cable through one of the unused mounting holes on the mounting base.
10. Twist together one pair of the sensor, probe, or extension cable wires and one of the thermistor wires (it does not matter which) and solder them together. Do the same with the other pair of sensor, probe, or extension cable wires.
11. Position the solder joints so they do not touch and secure to the console with hot melt glue or non-conductive epoxy.
12. After the hot melt or epoxy is cured, reattach the console base to the console top. Reattach the junction box cable, the power adapter, and the battery.



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Davis Instruments

3465 Diablo Avenue, Hayward, CA 94545-2778 U.S.A.
 510-732-9229 • Fax: 510-732-9188
 E-mail: info@davisnet.com • www.davisnet.com