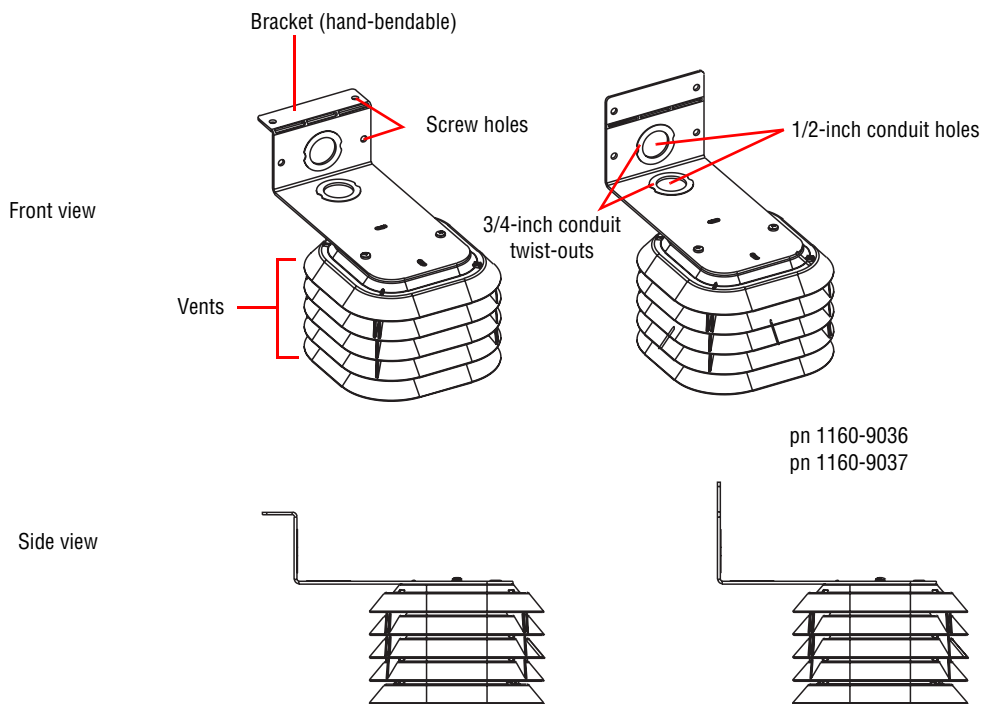




PRIORITY:	Normal
DATE:	December 16, 2004
TITLE:	Temperature probe installation guidelines
ECO REFERENCE:	NA
PRODUCT(S) AFFECTED:	Alpha outdoor signs
SUMMARY:	Provides the installation information and guidelines for mounting the temperature probe. This TechMemo replaces TM03-0006.

Temperature probe



This is the correct orientation of the temperature probe. Vents must ALWAYS point downward.

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Mounting guidelines

When properly installed, the temperature probe will indicate accurate temperature. The best location for the temperature probe is on the display or the display structure.

NOTE: There is a maximum distance of 250 feet between the temperature probe and the sign using the supplied 25-foot temperature probe cable (pn 7122-0401, 22 AWG). However, you can extend distance and potentially find a better mounting location by changing the cable gauge. Contact Technical Support for more information.

For two or more signs connected as Master/Master, attach a temperature probe to *each* sign. For two or more signs connected as Master/Secondary Master or Master/Slave, connect a single probe to *just* the Master sign.

Do

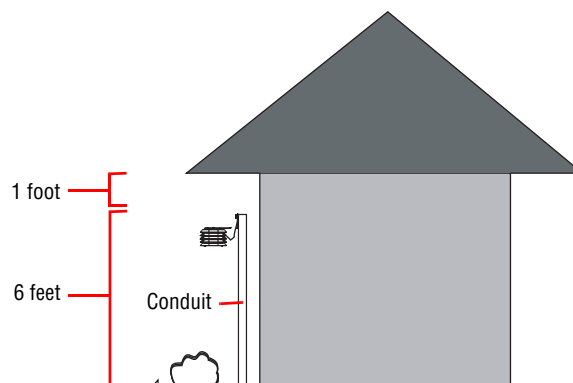
- Choose a location with the following criteria:
 - Air movement is not restricted by nearby walls or other obstructions.
 - The mounting background is light-colored and not dark-colored.
 - The location is above vegetation and not above asphalt or blacktop.
 - The location is on the north side of a building to provide protection from the sun.
- Shield the probe from the effect of the direct sun, reflected heat, or any nearby sources of heat, such as chimneys, lamps, vents, or HVAC ducts.
- If the temperature probe will be mounted to a heat-conducting surface, like metal, prevent the temperature probe's case from conducting heat from this surface by placing a non-heat conducting material, like a wood board, between the surface and the probe.
- Mount the temperature probe at least 6 feet off the ground.
- Mount the temperature probe at least one foot below the eave of a protected overhang so convection currents (rising hot air flow) are not trapped around the temperature probe. Also, make sure convection currents are not blocked by the mounting plates.
- Mount the probe so that the vents face downward.
- Hand-tighten the mounting screws so as not to strip them.

Do not

- Mount the temperature probe along the top of the sign.
- Mount the temperature probe near sprinklers and water fountains.
- Run the temperature probe cable and the sign's power wires through the same conduit.

The picture below is an example of how the temperature probe *should* be mounted:

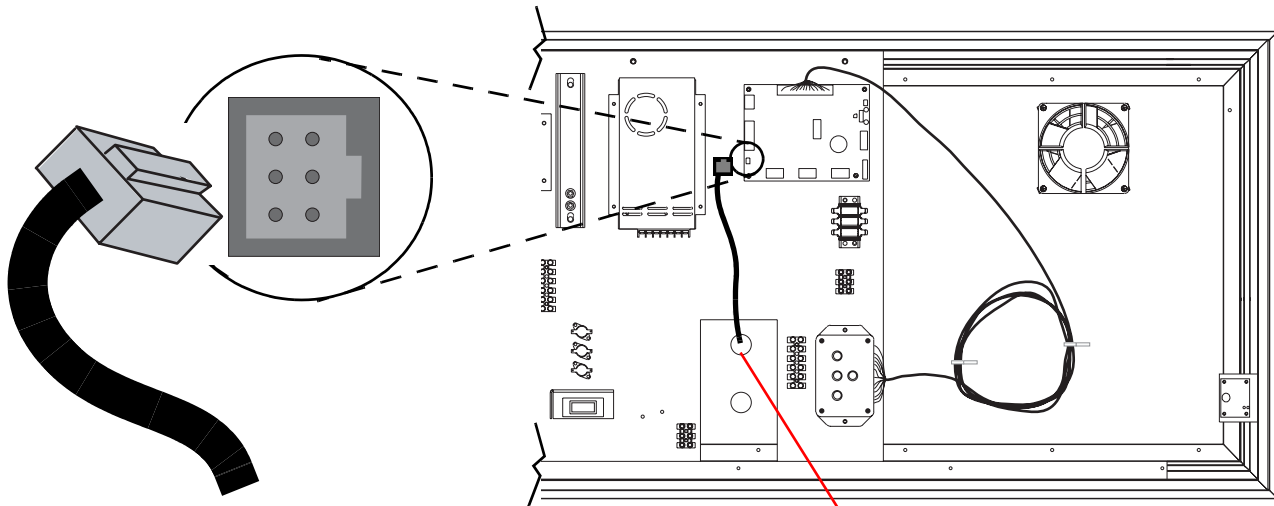
- Shielded from sun
- Located on north side of building
- Air movement not restricted
- Above vegetation



Installation

1. Mount the temperature probe with the vents pointing downward using the mounting holes OR the conduit holes on the bracket.
2. Run the temperature probe cable to the appropriate terminal block.
3. Connect the temperature probe to the terminal block, noting any jumper wire connections. See specific wiring information for your sign below.

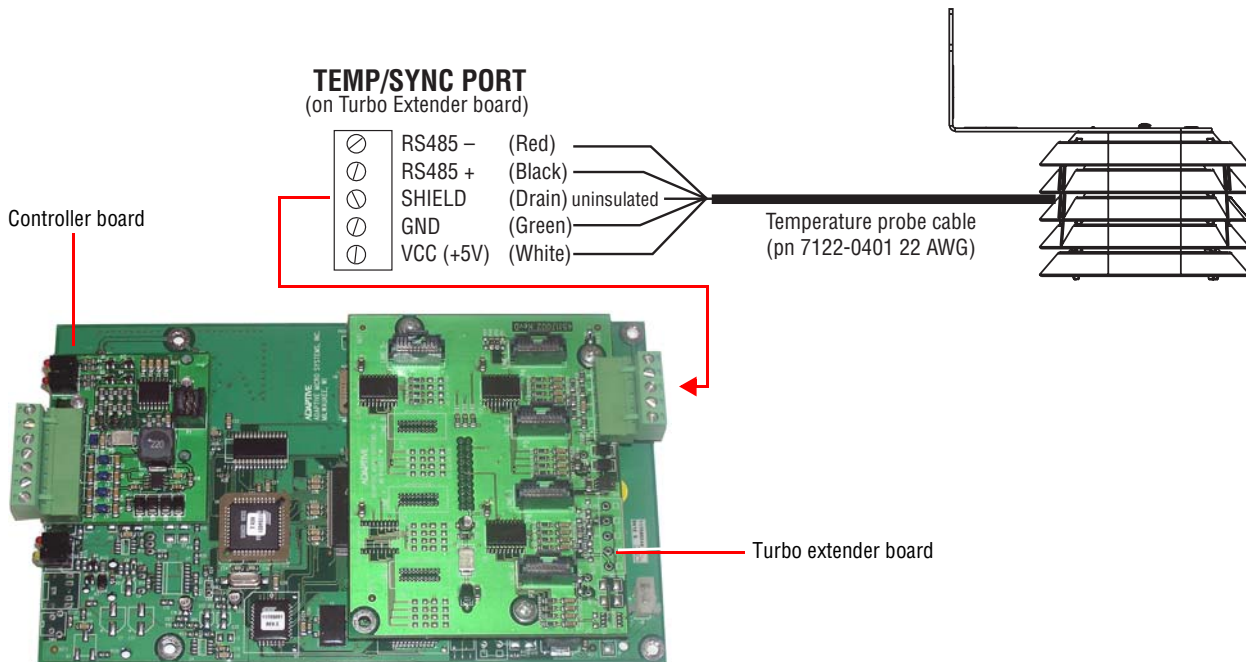
AlphaEclipse 1500 series signs



Note: Factory-installed wiring is not shown

Communications/temperature probe opening

AlphaEclipse 2500, 2600, and 3500 series signs



AlphaEclipse 3600 series signs

