Temperature Probe Installation Instructions

(PNs 1288250601SP and 1288250603SP)

When properly installed, the temperature probe will send a signal to the sign's controller board that indicates the accurate ambient temperature near the sign. The temperature probe with the standard cable (pn 71220401) can be mounted within 25 feet of the sign. This distance can be extended by changing the length and gauge of the cable. Contact Technical Support for more information.

For two or more signs connected as Master/Secondary or Master/Slave, connect the temperature probe to the Master sign.

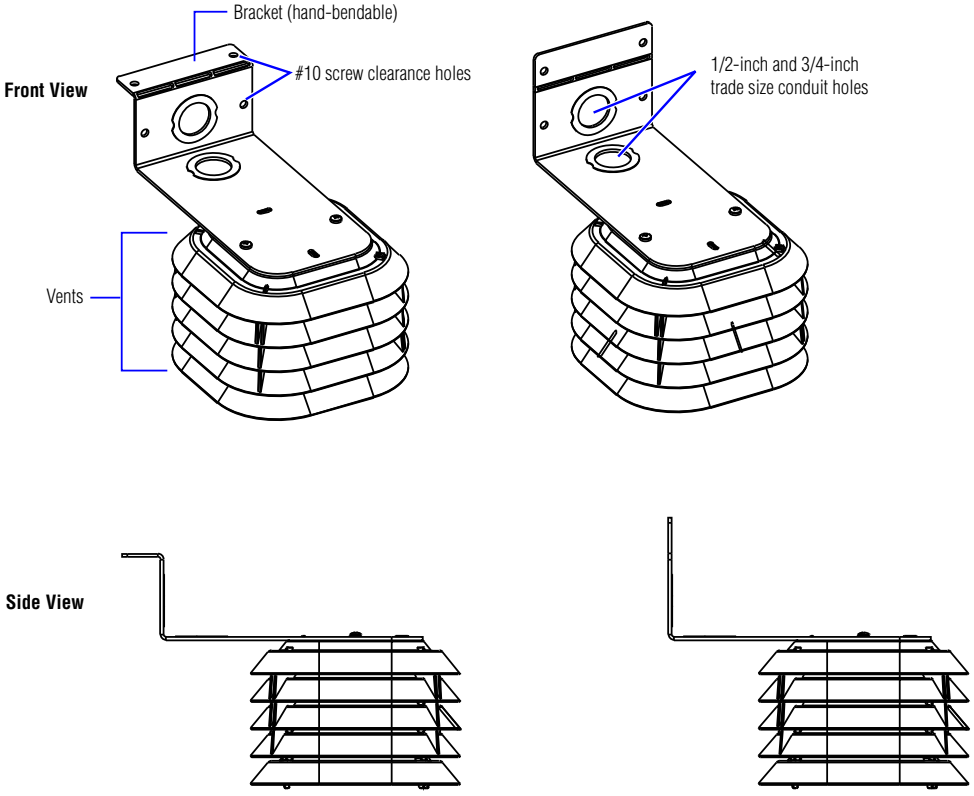

Figure 1: Correct orientation of the temperature probe is with the vents pointing DOWN

Mounting requirements and guidelines

Requirements for temperature probe mounting

Notice: Do **NOT** mount the temperature probe along the top of the sign, on the sign, near sprinklers, or water fountains.

Failure to follow the temperature probe mounting requirements may cause intermittent or inaccurate operation and will not be covered by the warranty.

- Vents on the temperature probe **must** point downward.
- Do **NOT** run the temperature probe cable in the same conduit as the sign's power wires.
- The conduit connection to the sign **must** be watertight.

ADAPTIVE
Adaptive Micro Systems LLC

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Guidelines for temperature probe mounting

Choose a mounting location that meets the following criteria, otherwise the temperature probe will record a false temperature reading:

- On the sign super-structure below the sign. **Do NOT mount directly to the sign.**
- Air movement is not restricted by nearby walls or other obstructions.
- Mounting background is light-colored and not dark-colored.
- Above vegetation and not above asphalt or blacktop.
- 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.
- At least six feet off the ground, and 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 mounting plates.
- Only one temperature probe is required in a network of signs but it **must** be connected to the Master sign.

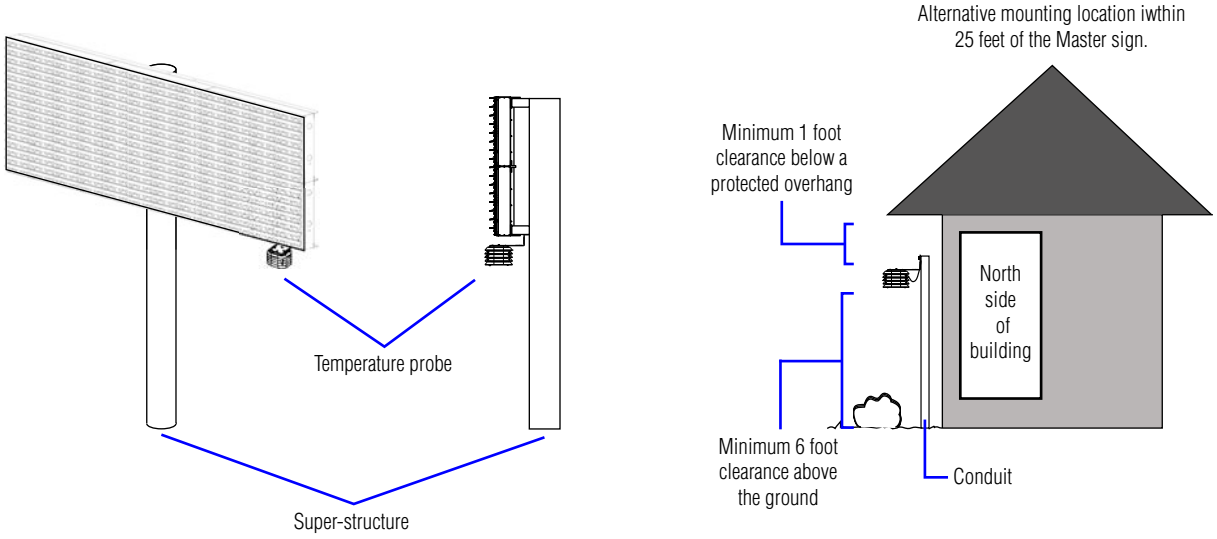

Figure 2: Temperature probe mounting

Guidelines for drilling into the sign's sub-structure

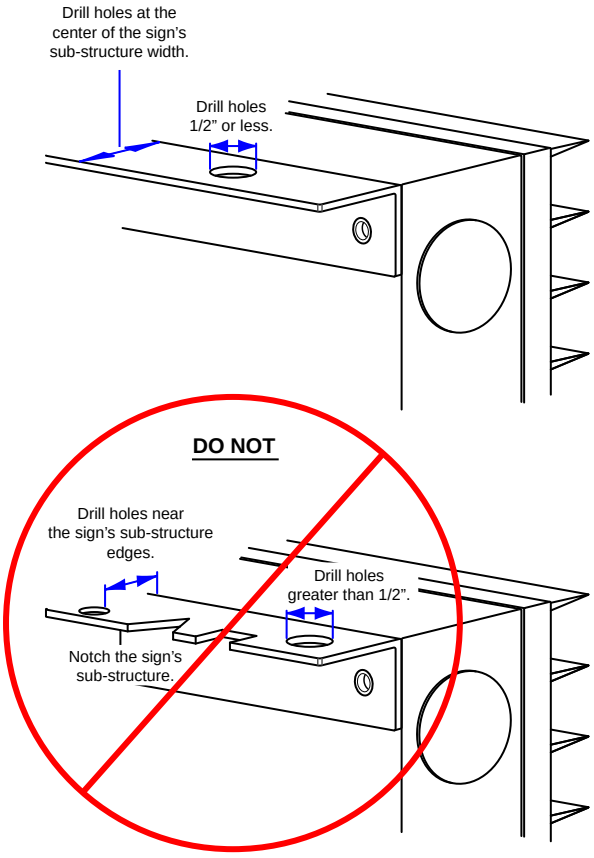

Figure 3: AlphaEclipse sub-structure drilling guidelines

Installation

WARNING! Hazardous voltage. Contact with high voltage may cause death or serious injury. Always disconnect power to unit prior to servicing.

Some signs may pose a possible fall hazard, remain clear of door when opening.

⇨ To install the temperature probe

1. The temperature probe **must** be mounted with the vents pointing downward using the mounting holes OR the conduit holes on the bracket.
2. Run the temperature probe cable through watertight conduit to the control cube or section. The conduit connection to the sign must be watertight.

   Notice: To prevent interference do NOT run the temperature probe cable in the same conduit as the sign's power wires.

3. Connect the temperature probe to the wireway terminal block as indicated for your sign series.
   - For 3500 series A and 1500 series signs, see page 4.
   - For 3600 series signs, see page 4.
   - For 3500 series B, 2500, and 2600 series signs, see page 5.
   - For RoadStar signs, see page 6.
   - For StreetSmart signs, see page 7.
   - For Excite signs (23mm Series A only), see page 8.

Connecting the temperature probe to 3500 series A and 1500 series signs

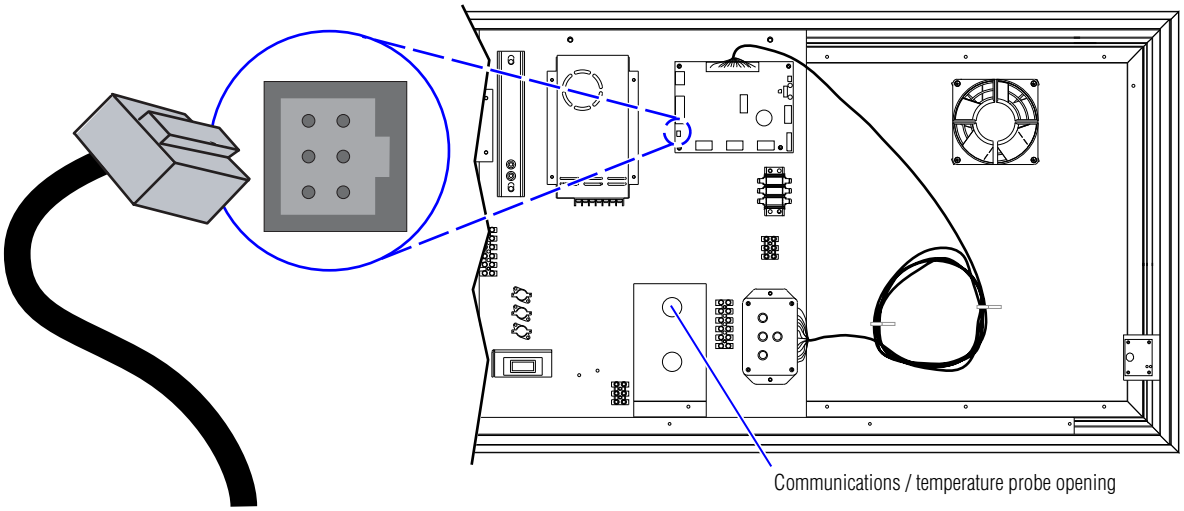

Figure 4: AlphaEclipse 3500 series A and 1500 series signs temperature probe connection

Connecting the temperature probe to 3600 series signs

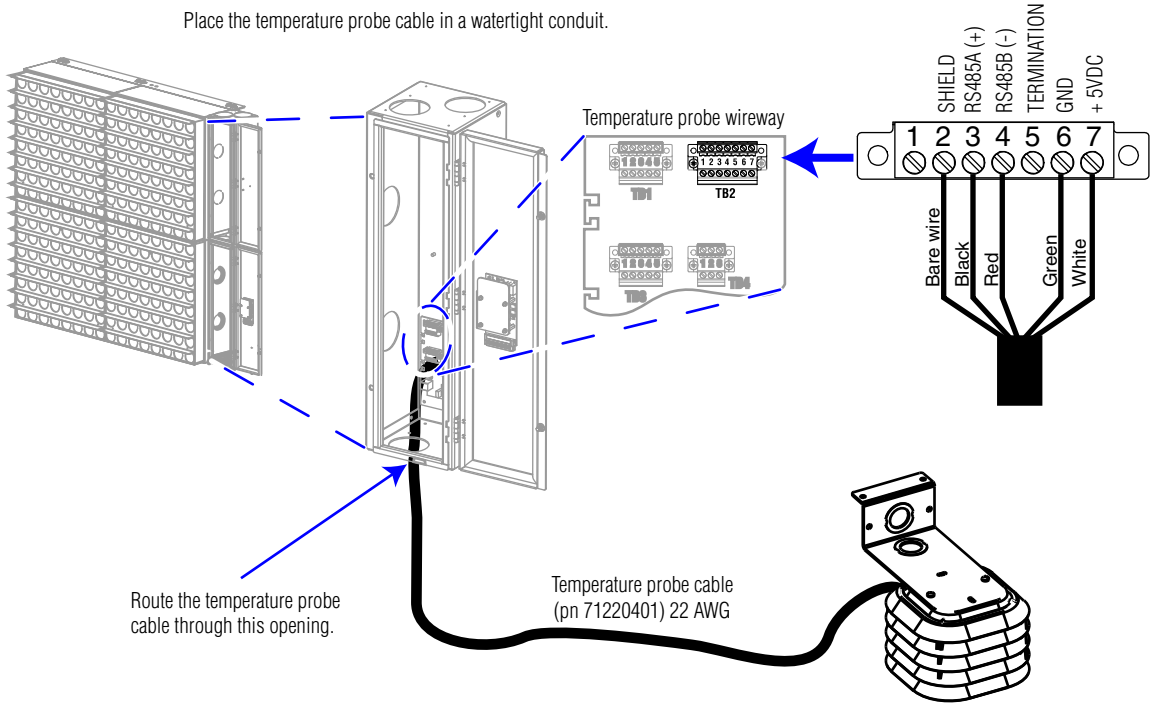

Figure 5: AlphaEclipse 3600 series sign temperature probe connection

Connecting the temperature probe to 3500 series B, 2500, and 2600 series signs

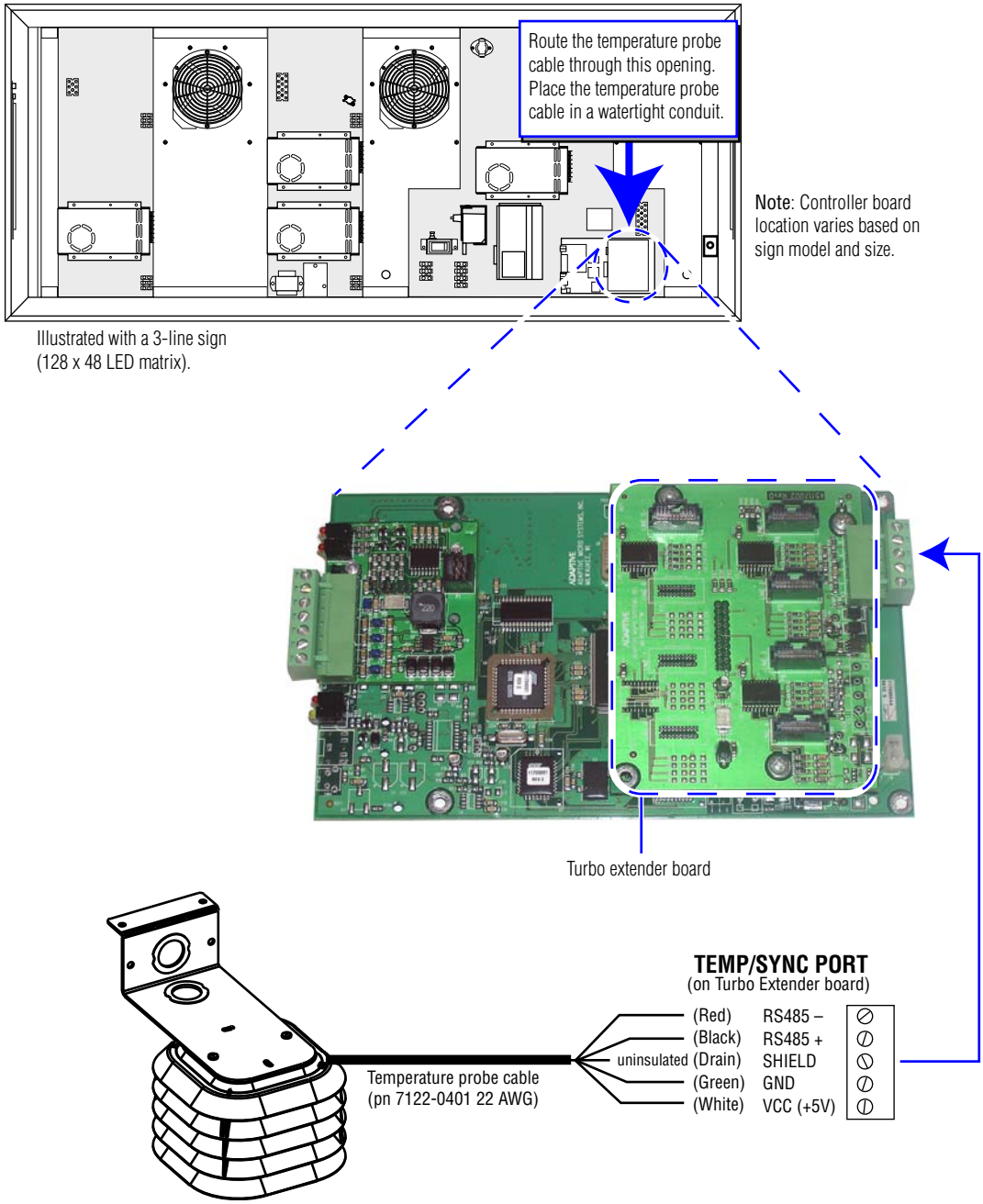

Figure 6: AlphaEclipse 3500 series B, 2500, and 2600 series signs temperature probe connection

Connecting the temperature probe to RoadStar signs

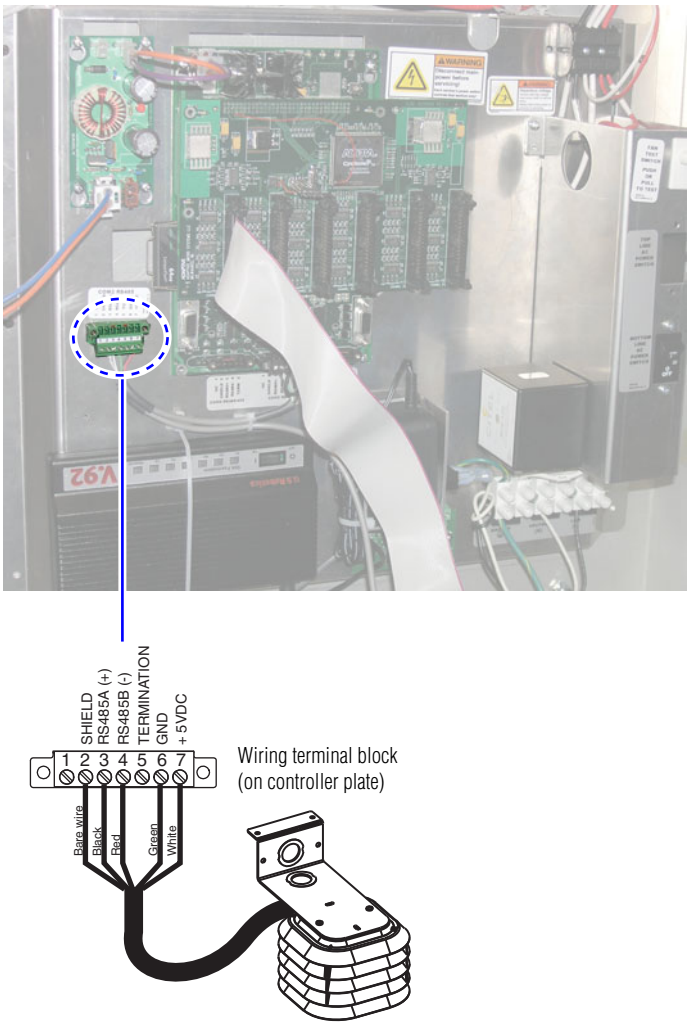

Figure 7: AlphaEclipse RoadStar sign temperature probe connection

Connecting the temperature probe to StreetSmart signs

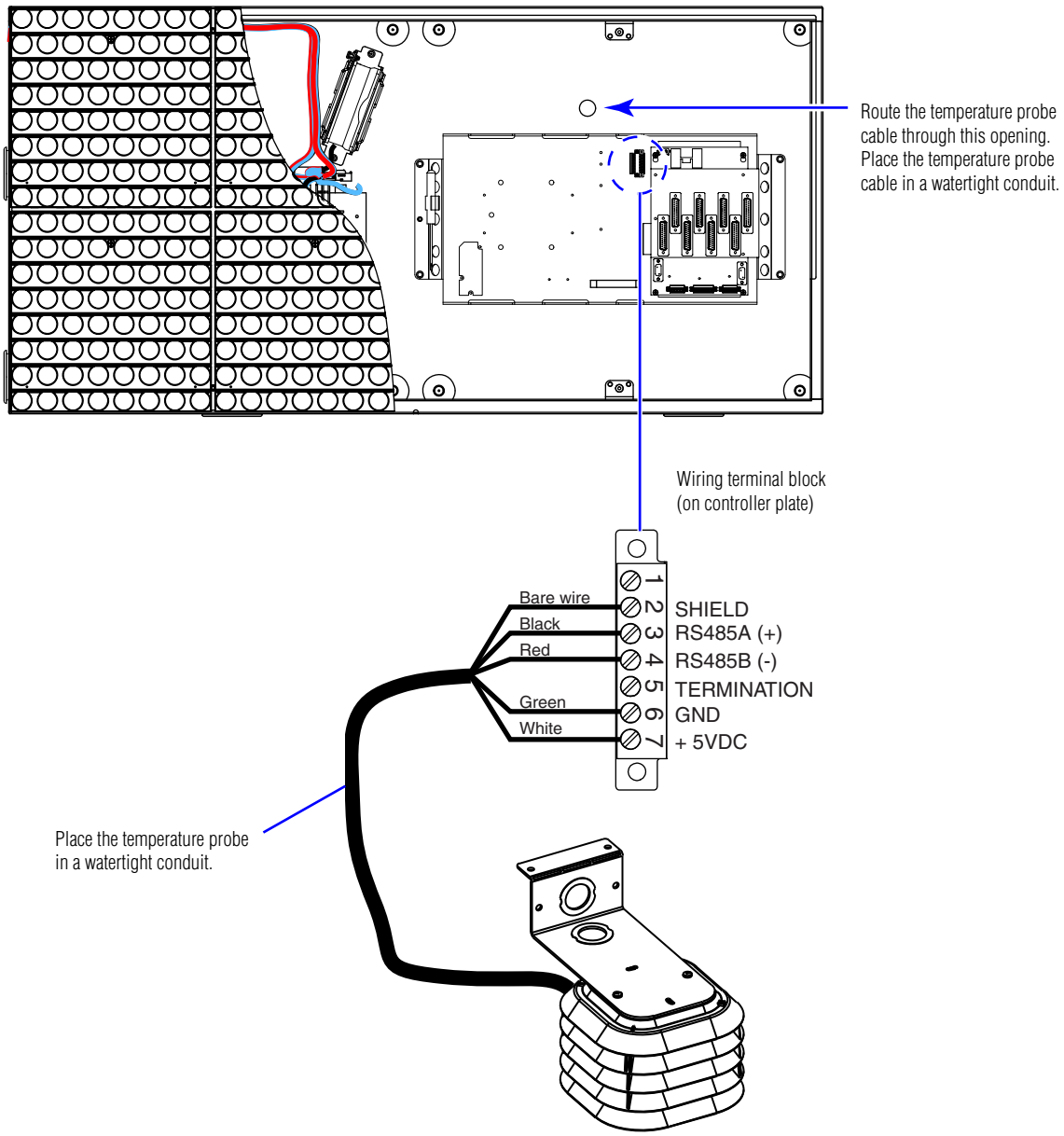

Figure 8: AlphaEclipse StreetSmart sign temperature probe connection

Connecting the temperature probe to Excite signs (23mm Series A only)

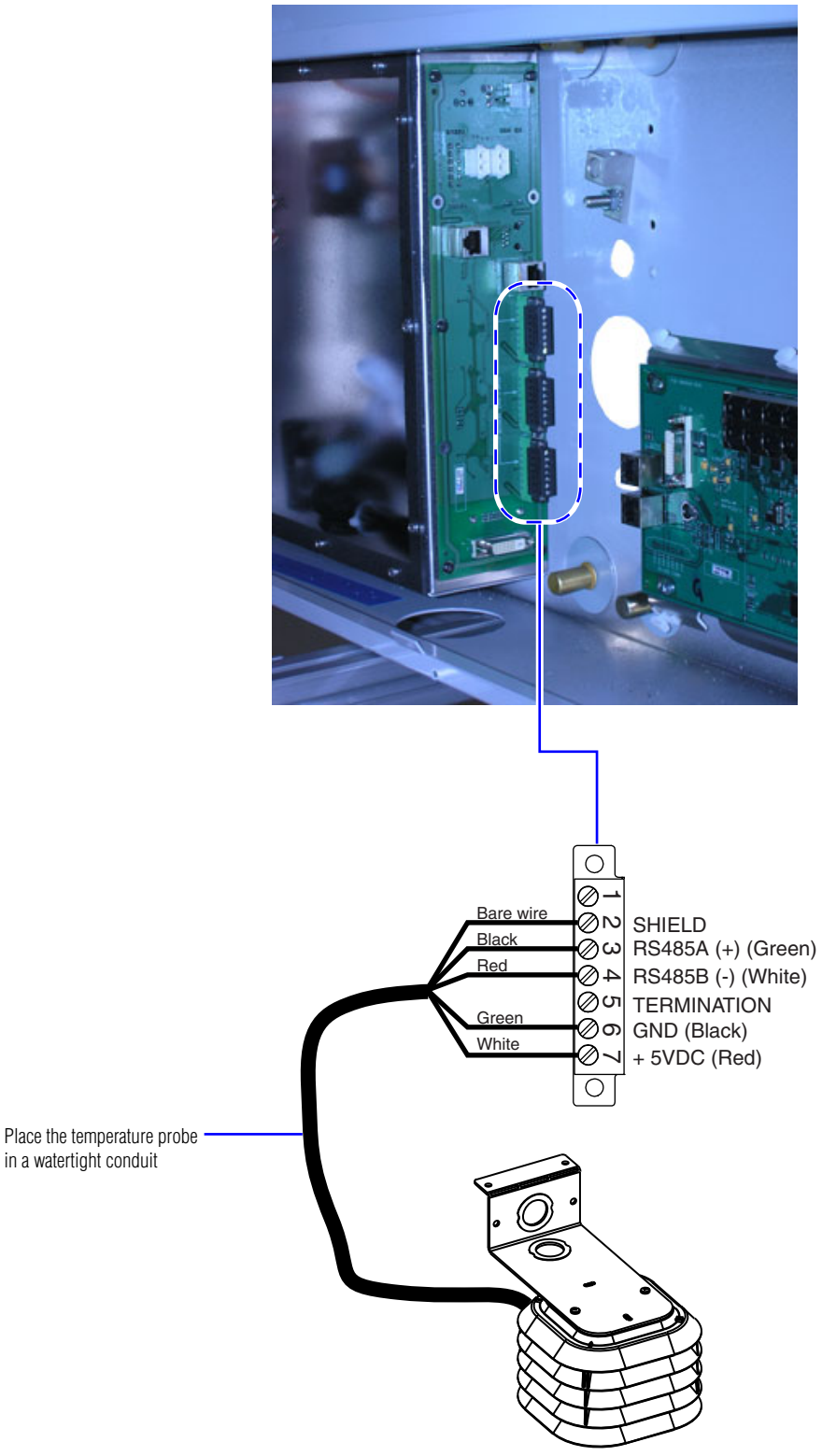

Figure 9: AlphaEclipse Excite 23mm Series A sign temperature probe connection