



Model 31A00-7 Extended Range Temperature Sensor

DESCRIPTION

The Model 31A00-7 Extended Range Temperature Sensor is used for sensing temperatures from -40° F - 120° F when connected to an HAI OmniLT, Omni II, or OmniPro II controller with Firmware Version 2.8 or higher. It features a new, high accuracy temperature sensor that doesn't need calibration.

The temperature can be used to activate programs for controlling temperatures indoors and in attics, garages, greenhouses, basements, wine cellars, coolers, and freezers. The temperature can be displayed on the console or spoken over the telephone. It can also report, log, alert, or generate an alarm if the temperature reaches freeze conditions or if the temperature goes above the high setpoint or drops below the low setpoint programmed in the system.

When used outdoors, the Model 31A00-7 should be mounted under an overhang to protect it from direct sunlight and rain. It is coated with a sealant to withstand outdoor moisture. The outdoor temperature can be displayed on the console, spoken over the telephone, or displayed on an HAI communicating thermostat. Automation programs, macros, and indoor appliances can be controlled based on the outdoor temperature.

INSTALLATION

1. Each Model 31A00-7 requires one zone input on the HAI controller or Expander Module. The Model 31A00-7 **can not** be connected to a zone on an Expansion Enclosure (i.e. Model 17A00). Run a 4-conductor wire from the controller location to the Model 31A00-7.
2. Mount the Model 31A00-7 using the supplied wall anchors and screws. For optimal temperature readings, mount it vertically so that the white arrow (silk-screened onto the board) points upward as shown in FIGURE 1. The plastic enclosure must be mounted so that the airflow slots are at the top and bottom. Connect to controller as shown in FIGURE 1.
3. Program the zone type for the temperature output (T) as an Extended Range device: ER Outdoor Temperature (Type 85), ER Temperature (Type 86), or Temperature Alarm (Type 87) based on the application.

SPECIFICATIONS

Dimensions: 2.75W x 2.75H x 1D

Temperature Range: -40° F - 120° F

Current Consumption: 15mA maximum

(Connections Diagram on Next Page)

