

## SPECIFICATIONS

### Temperature

Range: -13.0 to 158.0 °F (Model 4159)

-25.0 to 70.0 °C (Model 4160)

Resolution: 0.1°



Fig. 1



Fig. 2

## BATTERY INSTALLATION

Remove the battery compartment cover (Fig. 1) by lifting it at both corners simultaneously. This will expose the battery cover and setting buttons (Fig. 2). Loosen the battery cover screw and remove the battery cover. Install the AAA battery according to the illustration in the battery compartment. Replace the battery cover making certain to insert the tab of the battery cover first. Carefully tighten the battery cover screw. **Do not over-tighten the battery cover screw, as this could damage the unit.** Replace the battery compartment cover (Fig. 1).

## SETTING THE INTERNAL CLOCK

The internal clock must be set so that the minimum and maximum temperature memories will automatically reset at the correct time (See Maximum/Minimum Memory Reset section). The internal clock will begin keeping time at 0:00 hours once the battery has been installed, follow this procedure to enter the correct time-of-day.

1. Remove the battery compartment cover (Fig. 1) by lifting it at both corners simultaneously.
2. Press the MODE button to enter the setting mode. (The time-of-day display will appear with the hours digits flashing.)
3. Press the + button to advance the hours. (Time-of-day must be entered in 24-hour format.)
4. Once the desired hours appear on the display, press the MODE button (minutes will flash).
5. Press the + button to advance the minutes.
6. Once the desired minutes appear on the display, press the MODE button. (The unit will return to the temperature display.)
7. Replace the battery compartment cover.

## MAXIMUM/MINIMUM MEMORY RESET

The maximum temperature is automatically cleared and reset to the current temperature every 24 hours at 08:00 hours (8 am). The minimum temperature is automatically cleared and reset to the current temperature every 24 hours at 20:00 hours (8 pm). There is a 12 hour differential between the maximum and minimum temperature being reset. It is not possible to disable this automatic memory reset feature.

## “CHEATING” THE TIME-OF-DAY FOR MEMORY RESET

To have the minimum and maximum temperature reset at a different time, other than 8 am and 8 pm, the time-of-day may be adjusted to the desired setting. There will always be a 12 hour differential between the maximum and minimum temperature resets.

*Example 1:* To reset the maximum temperature at noon, and the minimum temperature at midnight, the time-of-day would be set 4 hours behind the actual time-of-day.

*Example 2:* To reset the maximum temperature at 6 am, and the minimum temperature at 6 pm, the time-of-day would be set 2 hours ahead of the actual time-of-day.

## MOUNTING THE THERMOMETER

The unit may be mounted to any clean, smooth surface by using the supplied Velcro®. Prior to mounting, make certain that the surface is clean and dry.

The thermometer housing is weather resistant; however, the unit should not be placed in an environment where it will be constantly exposed to moisture. When mounting the unit, do not mount the unit in direct sunlight, this can cause readings to be higher than the actual ambient temperature and may also cause damage to the unit.

## ALL OPERATIONAL DIFFICULTIES

If this unit does not function properly for any reason, replace the battery with a new high-quality battery. Low battery power can occasionally cause any number of “apparent” operational difficulties. Replacing the battery with a new fresh battery will solve most difficulties.

## BATTERY REPLACEMENT

Erratic readings, a faint display, or no display are all indications that the battery must be replaced. Remove the battery compartment cover (Fig. 1) by lifting it at both corners simultaneously. This will expose the battery cover and setting buttons (Fig. 2). Loosen the battery cover screw and remove the battery cover. Install the AAA battery according to the illustration in the battery compartment. Replace the battery cover making certain to insert the tab of the battery cover first. Carefully tighten the battery cover screw. **Do not over-tighten the battery cover screw, as this could damage the unit.** Replace the battery compartment cover (Fig. 1).

## WARRANTY, SERVICE, OR RECALIBRATION

For warranty, service, or recalibration, contact:

### CONTROL COMPANY

4455 Rex Road  
Friendswood, Texas 77546 USA  
Ph. 281-482-1714 Fax 281-482-9448  
E-mail sales@control3.com  
www.control3.com

Control Company is ISO 9001 Quality-Certified by DNV and ISO 17025 accredited as a Calibration Laboratory by A2LA.