



## LCD THERMO/HYGRO INSTRUCTIONS PART #3002

### ***SPECIFICATIONS:***

1. This instrument displays temperature in degrees Fahrenheit or Celsius and relative humidity in percent form.
2. Temperature and relative humidity readings are displayed simultaneously.
3. Measuring range: Temperature: 14 - 122 degrees F.  
Humidity: 5% - 95% RH
4. Resolution: Temperature: 0.1 degree  
Humidity: 0.1 percent
5. Accuracy: Temperature: +/- 2 degrees  
Humidity: +/- 4 percent from 10% to 90%  
+/- 5 percent all other ranges
6. Relative humidity measurement is temperature compensated.
7. Batteries: 2 each AAA. Battery life: approx. 500 hours of use.
8. HOLD FEATURE: Hold button locks current temperature and relative humidity readings on display until RST (reset) button is pressed.
9. CELSIUS/FAHRENHEIT: User switchable between both. Leave in Fahrenheit mode for use in Air Correction program.
10. MEMORY: This instrument has a minimum/maximum recall button that allows you to see what the minimums and maximums were since the unit was last reset. This is not a feature that is to be used when using the Air Correction program.
11. RESPONSE TIME: Approx. 1-1/2 to 2 minutes.
12. AUTO POWER OFF: Instrument will turn itself off after 20 minutes to conserve batteries.

## ***OPERATING INSTRUCTIONS:***

Remove the protective sensor cover and turn on the instrument by pressing the ON/OFF button. This digital temperature/humidity instrument is designed to provide you with reliable readings of current weather conditions. This is a sensitive electronic instrument and should be treated as such. Before taking your readings, the instrument should be allowed to stabilize in the open air for approximately 2 - 3 minutes. It should be exposed to the air in a shaded area with a free air movement around it. With its quick response time this instrument is well suited for use in the staging lane area just prior to making your run. To obtain an accurate air sample however, move away from the cars in the staging lanes.

Stagnant air around the instrument will tend to insulate it from the true atmospheric conditions and cause inaccurate readings. Blowing air across the face of the instrument with a fan is an acceptable way to assure your getting an accurate air sample, or you can wave the gauge in the air for a brief period of time to get an accurate sample if you wish. This procedure will not cause the temperature or relative humidity readings to be any lower than they really are. Air from a blowing fan will feel cooler to you because it will increase the rate of evaporation of the perspiration from your skin, which tends to make you feel cooler even though the actual temperature and relative humidity are the same.

Remember that this instrument should not be exposed to direct sunlight, as that will absolutely cause inaccurate readings. Keep this and all weather instruments in the shade. Do not keep this instrument inside your enclosed trailer either if you are looking for accurate temperature and relative humidity readings; remember you are racing outside on the track - not in your trailer. Also don't keep this instrument too near the ground as it may give inaccurate readings because the asphalt or ground may have been baking in the hot sun or the ground may have excessive moisture content. Whatever procedure you decide on for taking your readings, do it the same way all of the time to assure consistency in your readings.

NOTE: When using this instrument for calculations in the Air Correction program, make certain you are reading the CURRENT TEMPERATURE and the CURRENT RELATIVE HUMIDITY and not the maximum or the minimum. Press and hold the MN/MX button until MIN appears on the display. These readings are the minimums. Press and hold the MN/MX button again until MAX appears on the display. These readings are the maximums. Press and hold the MN/MX button again until MIN or MAX disappear from the screen. You are now back to the current readings. To clear stored minimums and maximums press and hold the RST (reset) button until the entire display flashes.

Battery Replacement: If the temperature display or humidity display becomes dim, replace the batteries. Slide the battery cover off from the backside of unit. Remove the exhausted batteries from the instrument. Install two new 1.5-volt AAA size batteries into the battery compartment. Install the batteries so that they match the positive (+) and negative (-) polarity diagram inside the battery compartment. Weak batteries can cause inaccurate readings, so make certain your batteries are in good condition.