

Salt Solution Calibration Testing

#RH/TK/33 and #RH/TK/75

Preparation:

1. Keep the bottles capped at all times when not in use.
2. Keep the bottles in an environment as close to 20C/68F as possible.

Procedure:

1. Uncap bottle and place the RH stick all the way into the bottle.
2. Pull it up about $\frac{1}{4}$ "
3. Wait approximately 12 hours.
4. Connect the meter to the RH stick either directly or via extension cable.
5. Turn the meter on and start measuring RH (consult the owner's manual for further detail).
6. Wait approximately 15 seconds for reading to settle and freeze the reading on screen by pressing the down button.
7. Record the Reading.

Results:

1. The reading should be \pm 2% from the given RH and Temperature chart (on the side of the container)
 - a. Example: If the 33% bottle is used at 15C, the chart value is 33.30%, and the meter reading should be between 31.3% and 35.3%.
 - b. Example 2: If the 75% bottle is used at 20C, the chart value is 75.47% and the meter reading should be between 73.4% and 77.4%
2. If the reading is outside the tolerance range, the RH stick must be replaced. Adjustments cannot be made.

Additional Notes:

1. Uncapping and placing the sensor in the bottle should be done as quickly as possible. Prolonged exposure to outside air will influence the environment inside the bottle. This will result in increased wait time to reach equilibrium again before an accurate measurement can be obtained.

DELMHORST INSTRUMENT CO.
51 INDIAN LANE EAST
TOWACO, NJ 07082
TEL: (973) 334-2557
(877) DELMHORST (335-6467)
FAX: (973) 334-2657
E-Mail: info@delmhurst.com
Web Site: www.delmhorst.com