

AWC Probe

CALIBRATION INSTRUCTIONS

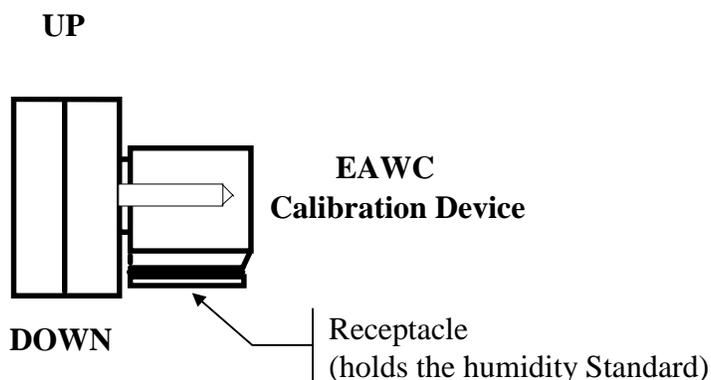
Calibration of the AWC probe should be checked at least every 6 months. Generally a calibration at 35 and 80%RH is sufficient. When the probe is used to measure low humidity products (below 35%RH), an additional calibration at 10 and 0%RH is recommended.

ROTRONIC provides certified humidity standards (salt solutions) that can be used to verify/adjust the AWC probe. Humidity standards are available for the following values: 0, 5, 10, 20, 35, 50, 65, 80 and 95 %RH.

1) Calibration Device

To calibrate the probe, use the **EAWC** calibration device to hold the humidity standards.

Stand the probe on one of its sides as shown on the drawing and slip the calibration device over the spike:



2) Calibration Procedure

During calibration, it is essential to maintain stable temperature conditions.

To calibrate the AWC probe, use the following the procedure in the sequence indicated:

a) Calibration at 35 %RH

- Remove the ROTRONIC label located on the base of the AWC probe (slide the blade of a small screwdriver under the right hand side of the label). This gives you access to the calibration potentiometers. These are marked 35F, 80, 10 and 0.
- Gently tap the ampoule that holds the humidity standard so that all of the liquid rests at the bottom of the ampoule.
- Remove the receptacle from the EAWC and place one of the textile pads provided with the humidity standards (except 0 %RH) in the receptacle. Break the ampoule between neck and body, using appropriate protection against possible glass fragments. Pour the contents of the ampoule on the textile pad (to empty the contents more easily, tap the ampoule against the center of the textile pad). Put the receptacle back on the EAWC.
- Allow for 60 minutes for the standard and humidity sensor to reach equilibrium. Monitor the display of the indicator connected to the AWC probe.
- When the humidity reading is stable, adjust the probe with the 35% calibration potentiometer (marked 35F).
- When finished, remove the receptacle from the EAWC calibration device. Dispose of the wet textile pad.
- Wash in water the receptacle between each calibration. Dry thoroughly prior to use. Wash and dry the O ring separately to prevent moisture from being trapped under the O ring.

b) Calibration at 80 %, 10 and 0%RH

Repeat the procedure described for the 35 %RH calibration, using the appropriate value of humidity standard. Be sure to calibrate in the following order: 35, 80, 10 and 0 %RH.

c) Temperature Calibration

Temperature calibration should not be done in the field, return to factory.