

TECHNICAL NOTE

September 16, 2003

SUBJECT: Correct Humidity Sensor Positioning

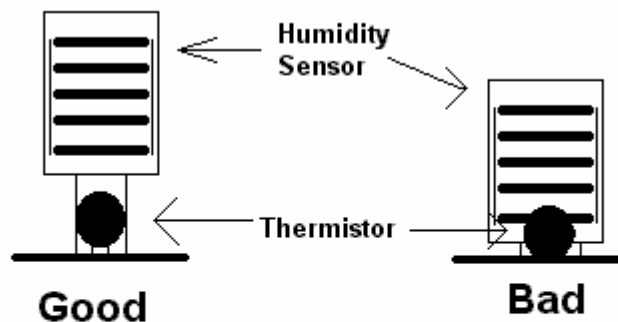
PROBLEM: The Humidity sensor in the FRB Humidity Tracer was designed to allow removal and/or replacement, as necessary. However, if the sensor is not repositioned correctly the thermistor can be damaged, the calibration can be affected, and/or the circuit can be shorted.

CAUSE: If the humidity sensor is pushed too far into the sockets such that it comes in contact with the thermistor (green globe), it is possible to damage the thermistor's leads or cause a short in the electronic circuit.

PROCEDURE:

When positioning the Humidity sensor, the sensor does not need to be pushed as far as possible into the sockets. The connection is not improved by this insertion, and in fact, can damage the circuit.

The illustration below indicates good and bad positioning of the Humidity sensor. The humidity sensor can be inserted into the sockets and will be adequately inserted at any point beyond where the crimps on the sensor leads are completely inside the socket until just before the humidity sensor comes into contact with the thermistor. Trying to insert the Humidity Sensor any further does not improve the grip and can only damage the equipment.



Correct Humidity Sensor Positioning