

INSTALLATION AND OPERATING INSTRUCTIONS

002B101-00 Rev B

Cage Code 56183

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HUMIDITY SENSOR ELEMENTS TESTING & REPLACEMENT

GENERAL

The manufacture of air dryer humidity sensing elements has advised TX Technologies, Inc. that normal air dryer routines should include the **replacement** of the humidity sensor elements **every two (2) years**. It has been found that continuous exposure to dry air over a prolonged period will reduce the sensitivity of the element.

TEST PROCEDURE

To be performed every six (6) months.

1. See operating manual for any preliminary steps to be taken before testing the humidity sensor in specific air dryers.

CAUTION: If the air dryer manual indicates that the test is to be performed by activating a test solenoid, which allows entry of moist air into the sensor chamber, **DO NOT PERFORM THIS TEST**. It is no longer recommended and should be eliminated from the test procedure.

With power to the air dryer turned off the humidity test solenoid should be disconnected.

2. Unscrew the sensor retaining nut and take the sensor, still connected to the cable, out of its chamber. The humidity alarm light should go on **IMMEDIATELY!** If the alarm is delayed by more than ten (10) seconds or you must cup the sensor in your hand or blow across it to obtain an alarm, replace the sensing element. If this condition persists with a new element, test the humidity controller using the appropriate set plug and procedures outlined in the air dryer manual.
3. Replace the sensing element in the chamber being careful to position the o-ring around the sensing plug grommet. Check for leaks using a leak test solution.

CAUTION: The sensor retaining nut should be hand tight only.

4. Follow operating manual instructions for restoring the air dryer to normal operating conditions.