



1/22/2015

SERVICE LETTER

Models: RF80-K and RF80-M

Subject: High Humidity Conditions

In equipment designs, there are times that condensation caused by high humidity has the potential to create a current path and expose the equipment operator to hazardous voltages. The RF80-K design has been successfully tested (3rd party) to assure that the unit does not pose a safety risk at humidity levels of up to 95%.

While testing has validated that there is not a safety risk, high levels of humidity can have an impact on the accuracy and reliability of the RF80-K. The RF80-K circuit boards are coated to be able to withstand some humidity and contaminants common to the operating environment. However, high humidity may result in the RF80-K metering temporarily being out of tolerance. Furthermore, prolonged and sustained exposure to high levels of humidity can result in damage to individual circuit boards due to the accumulation of this condensation around active electronic components.

For this reason, Christie recommends that RF80-K units operated in areas where high humidity is common have shop provisions to incorporate some sort of dehumidifier that keep the shop environment below 50% relative humidity. This will improve equipment accuracy and reliability.

When performing a calibration check on the RF80-K it is imperative that the humidity in the environment be kept below 50% for 24 hours prior to the check to assure the humidity does not result in any erroneous readings. Calibration checks may be performed by the end user with the procedure given in Section 6.0 of TD-650. Calibration adjustments are done only by factory authorized service centers.

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