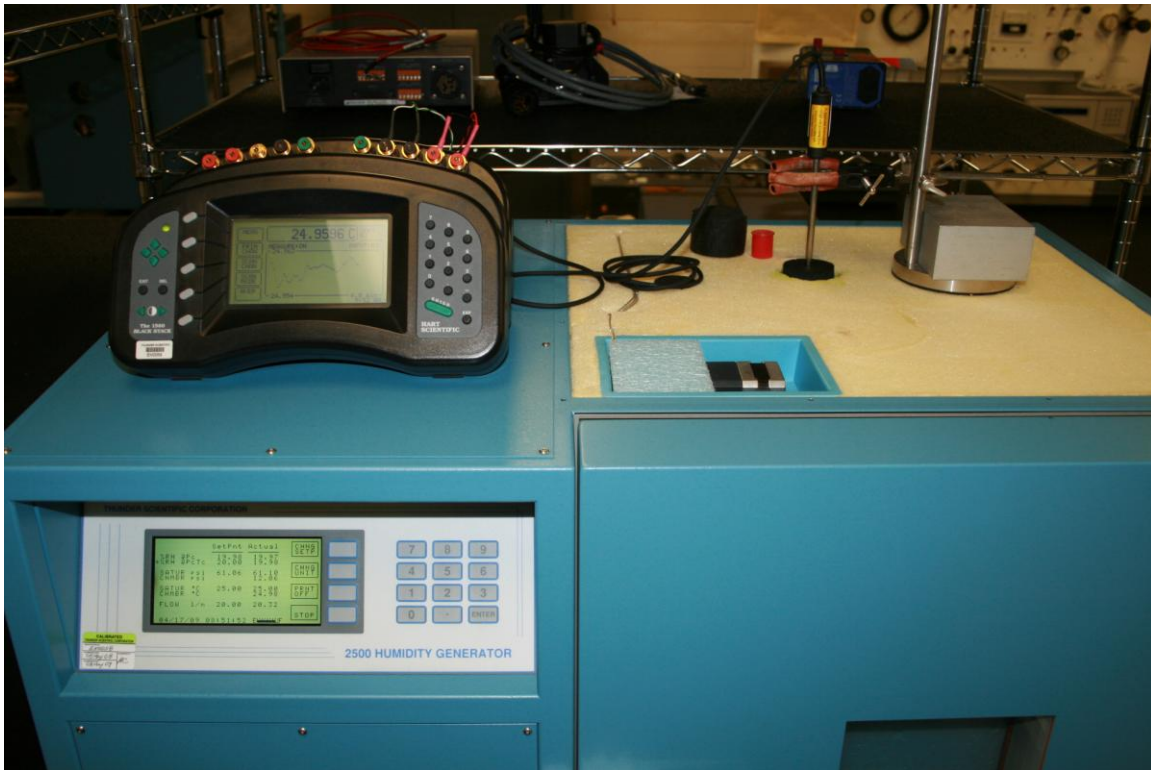


Humidity Generation and Calibration Equipment

**THUNDER SCIENTIFIC**  
**CORPORATION** THE HUMIDITY SOURCE

## *Model 2500*

### Temperature Inter-Comparison Calibration



Tech Support Document TSD-0217  
Revision Date: April 17, 2009

623 WYOMING BLVD. SE



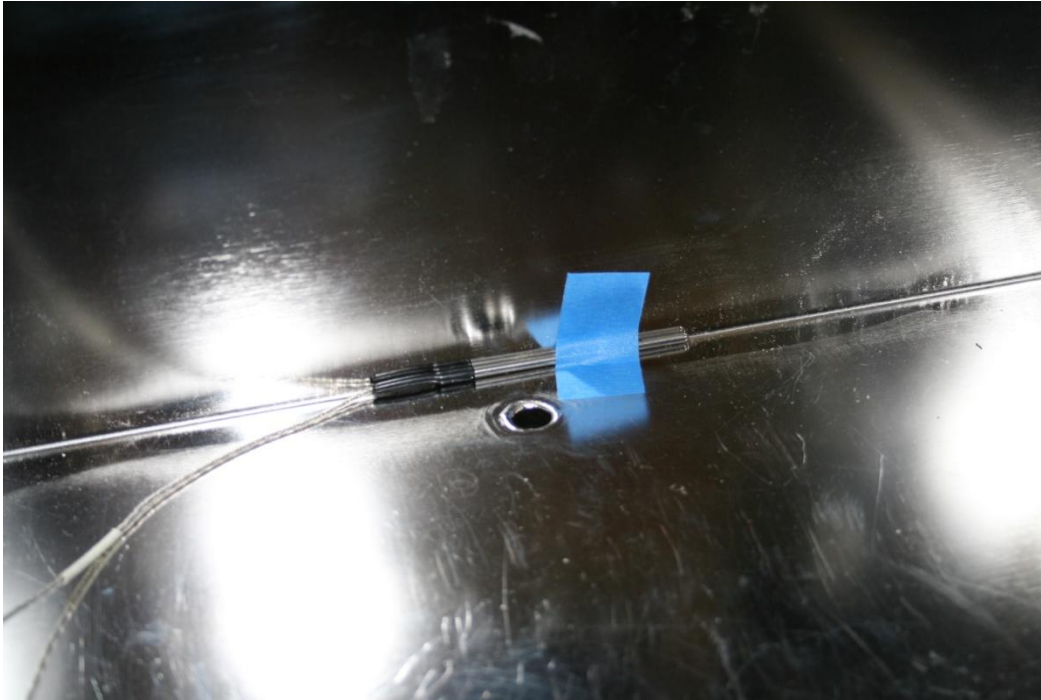
ALBUQUERQUE, NM 87123-3198  
[WWW.THUNDERSCIENTIFIC.COM](http://WWW.THUNDERSCIENTIFIC.COM)



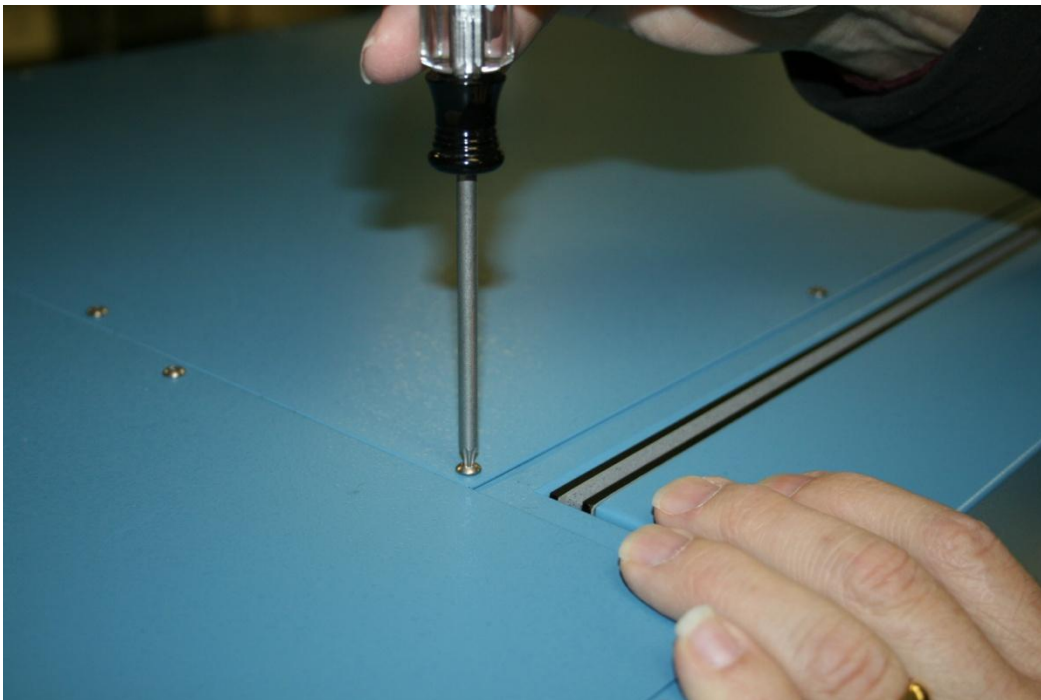
TEL: 505.265.8701  
FAX: 505.266.6203

## Temperature Inter-Comparison for the Model 2500 Humidity Generator

1. Pull the chamber temperature probe down into the chamber and tape it down at the bottom back center.



2. Remove the top right panel.



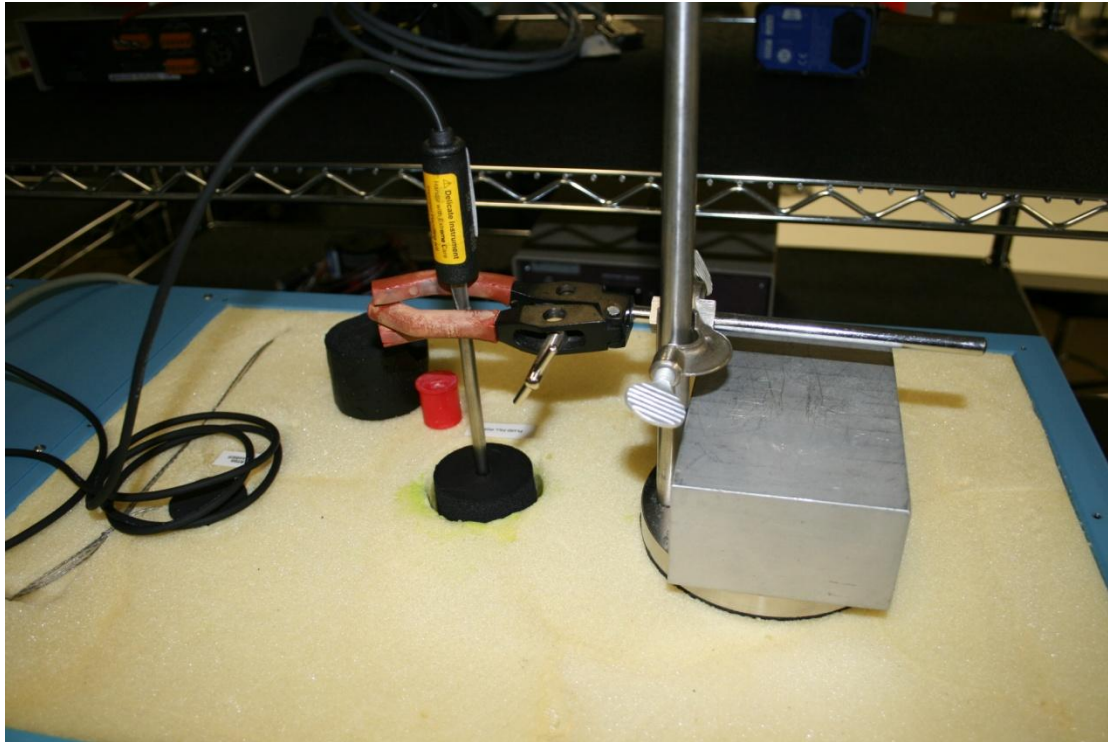
3. Remove the chamber fluid fill port insulation and red cap.



4. Install foam insulation in front of the chamber opening.



- Substitute foam insulation with comparison temperature probe as displayed. The insertion depth into the fluid jacket should be a minimum of 8" (204mm).



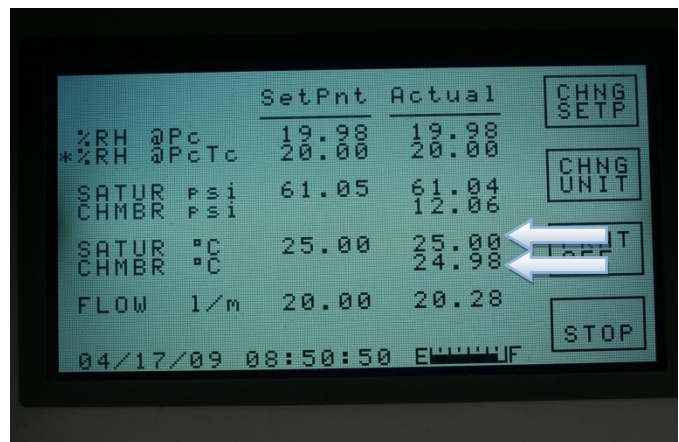
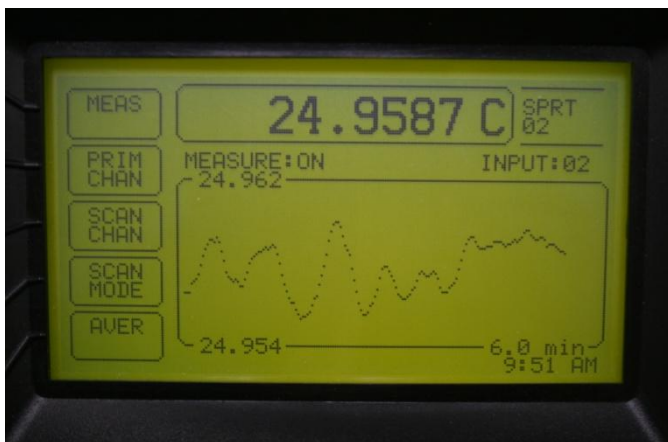
- Operate the 2500 generator at default conditions and enter set-points at 25 °C and 20%RH.



7. Allow a stabilization period of 60 minutes.



8. Check both the 2500 and the comparison to see if they match.



Saturator temperature (SATUR) is the temperature of the fluid that surrounds the chamber.

Chamber temperature (CHNBR) is the temperature of air as measured in the test chamber.

NOTE: The temperature inter-comparison as illustrated by this procedure does not substitute the calibration of the temperature probes in the manual. This procedure is intended to provide a simple inter-comparison check with a suitable temperature reference.