



- GRUAN operational program
- GRUAN data processing
- GRUAN research



- Following recommendation from TT1 this might be changed to a 97%-pot using  $K_2SO_4$ .



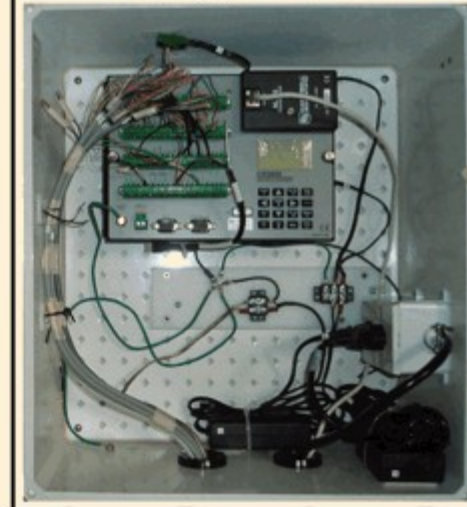
## Temperature/Humidity Reference System (THref)

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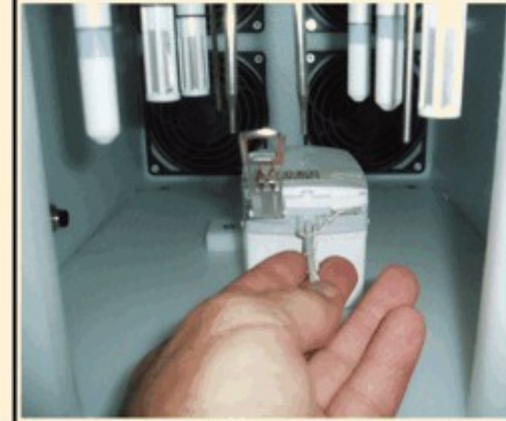


The THref uses 6 research-quality T/RH probes in a fan-ventilated chamber within an instrument shelter to provide an accurate time series of surface conditions. A photosensor signal marks the presence of a radiosonde in the THref data file, for later correlation and comparison of the radiosonde and THref measurements.

## Datalogger Enclosure



## Radiosonde Placement





- The 100% pot option provides a check of instrument performance ( and bias detection) at high humidity and temperature under controlled conditions.
  - TH ref provides pre-launch check of T and U at ambient conditions.
- There is a consensus that GRUAN station should apply additional ground check procedures to their routine radiosounding program in order to support long-term stability of the data.
- Temperature
  - Humidity
  - Pressure