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Characterization of the microbarometer's sensitivity to the environment

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The French Atomic Energy Commission (CEA) has developed microbarometers to measure infrasonic waves in the atmosphere. To characterize its sensors and validate their requirements, several test equipment have been developed. An infrasound generator is used to determine the sensitivity of the microbarometer in the frequency range from 0.0001 Hz to 300 Hz. In addition, a sealed enclosure regulated in static pressure as well as a temperature regulated enclosure allows to characterize the microbarometer's sensitivity to the environment. The covered temperature range is -10°C to 50°C and the covered static pressure range is 650 hPa to 1030 hPa.
Results obtained with microbarometers type MB3 and MB2005 are presented.