

## The context :

CETIAT is a research, testing and calibration laboratory operating in the fields of air flow, heat and acoustics. The hygrometry platform permits the simultaneous calibration of 8 humidity sensors (hygrometers and psychrometers). It comprises five benches. This platform acts as the national standard for the hygrometric calibration system.

## The aim :

To automate all the calibration processes in a way compatible with accreditation by COFRAC [French Accreditation Committee].

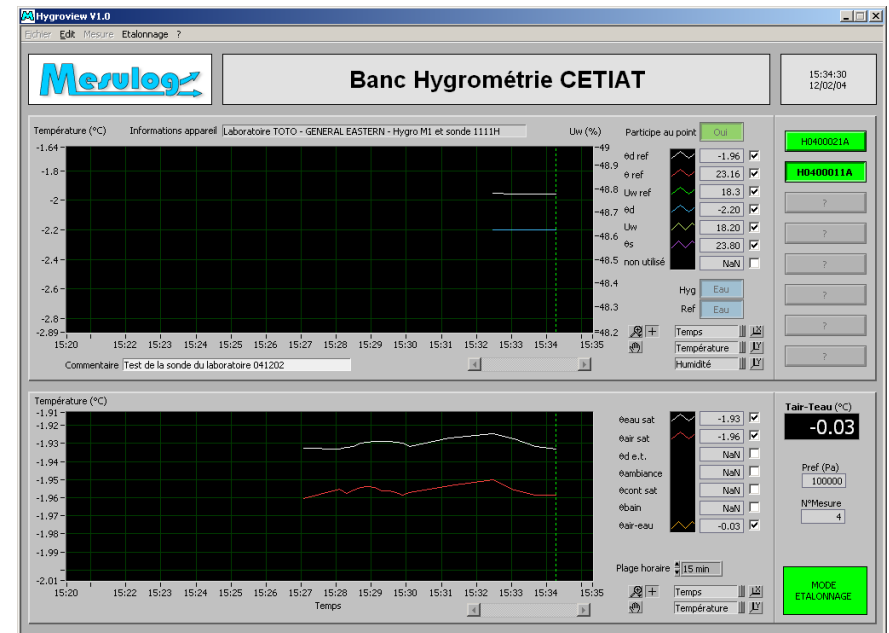
## The solution :

Develop a LabVIEW application for running calibration programmes and creating advanced test reports.



## Technical details:

- Use of a PXI chassis containing two multiplexer cards
- Control of an 8.5 digit DMM
- Bidirectional link with MS Excel
- Use of a file including the test configuration and results (for recording raw measurements and re-reading the corrected measurements)
- Display of graphs of measurements in progress
- Automatic creation of calibration reports



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