

Measurement of dispersion of helium in an enclosed space

Centro Nacional del Hidrógeno

The simulation laboratory of Centro Nacional del Hidrógeno (CNH2) in Spain is specialized in thermo-fluid dynamic analysis for different technologies related to hydrogen.

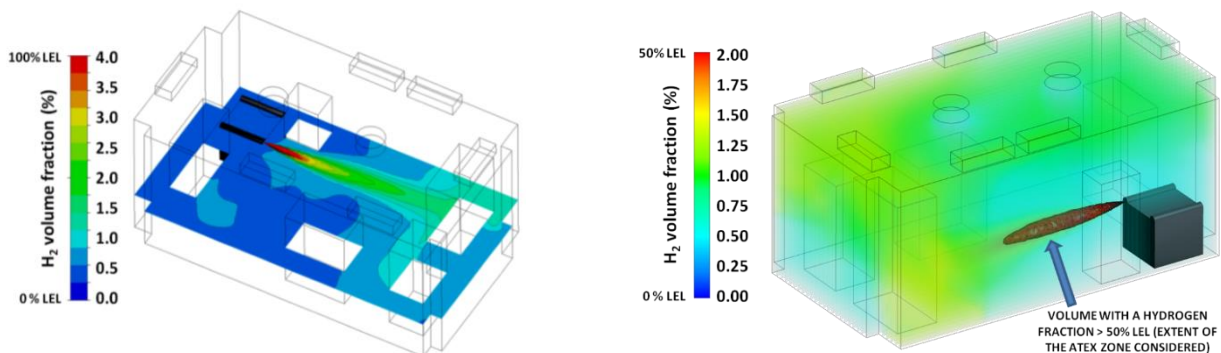
In order to create a flexible sensor network for hydrogen (simulated with helium) leaks detection and characterization CNH2 asked Xensor Integration to develop a thermal conductivity sensor with read-out electronics and WiFi data transmission.

The developed sensors were successfully used in different experiments to validate the mathematical models about a hydrogen leakage in an enclosed space.



XEN-5320 Gas Sensors with Wifi module

Examples of Hydrogen dispersion modelling



Reference

As a national research centre at the service of the entire scientific, technology and industrial community, the National Hydrogen and Fuel Cell Technology Testing Centre (CNH2) is aimed at driving forward the scientific and technological research into hydrogen and fuel cell technologies.

With its main headquarters located in Puertollano (Ciudad Real), it was created in 2007 as a Public Consortium between the Ministry of Education and Science, currently the Ministry of Science, Innovation and University Education, and Castilla-La Mancha Regional Government, with each entity holding a 50% interest.

Website: www.cnh2.es/en/



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