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45-8 ENERGY LAUNCHES SURFMOG H₂, THE MOST EFFECTIVE IoT TOOL FOR LONG-TERM HYDROGEN MONITORING IN SUBSURFACE




SurfMoG H₂ is the result of the expertise and union of a French company, 45-8 ENERGY, and a Swiss company, SOLEXPERTS. 45-8 ENERGY is specialised in subsurface exploration & production of eco-responsible gases such as helium and hydrogen. SOLEXPERTS bases its core business on the development of world-class geotechnical, hydrogeological and monitoring instruments.

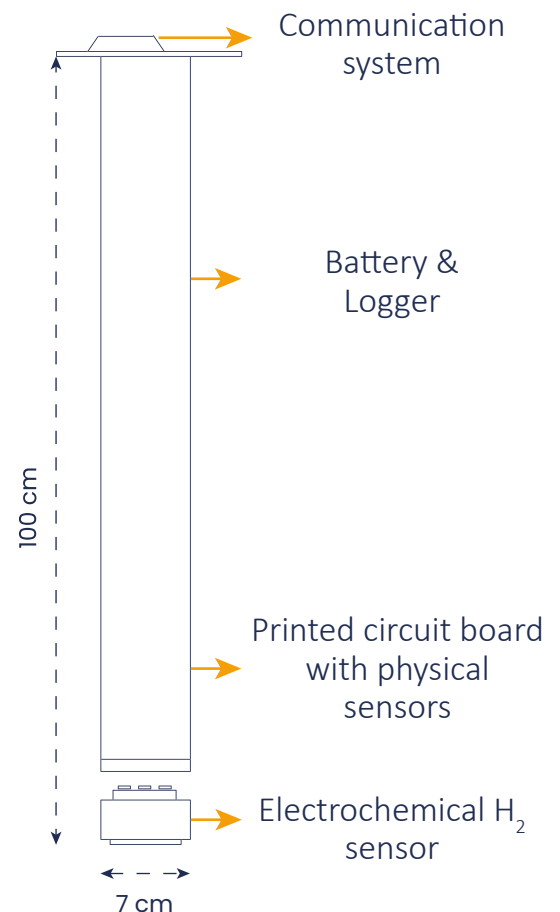
45-8 ENERGY's knowledge of subsurface and expertise into industrial gases, coupled with SOLEXPERTS' recognised skills in terms of mechanics and electronics, led to the creation of the most effective IoT tool to monitor hydrogen, accurately and continuously over months in the subsurface:



A TECHNOLOGY ADAPTED TO THE SUBSURFACE'S CONSTRAINTS

SurfMoG H₂ is composed of:

- 
An interchangeable gas analysis chamber, with an electrochemical sensor for hydrogen measurements up to 40,000 ppm (4%).
- 
An inox probe, designed specifically to withstand the subsurface's constraints, houses the sensor, battery and communication system.
- 
A high-strength plastic cover, to protect antenna and assure accurate data transmission without interference from the probe's installation environment.



A COMPLETE OFFER

SurfMoG was originally designed for hydrogen monitoring. To answer needs for other gases monitoring dedicated to various applications, CO₂/CH₄ version of SurfMoG is also available.

A WIDE RANGE OF APPLICATIONS

SurfMoG H₂ was originally designed to remove one of the technological barriers encountered by 45-8 ENERGY in the exploration of natural hydrogen in the subsurface. Following the first tests of the probe and the confirmation of its potential, its application has been made viable for the following fields



Gas exploration & production



Gas storage



Storage of radioactive waste



Hydrogeology



Geothermal energy

AN OFFER WHICH MEET THE INDUSTRY'S NEEDS

SurfMoG H₂ is available on a long-term rental basis (1 to 24 months) to best suit your needs. SurfMoG H₂ has been designed for the simplest and most efficient user experience: ready-to-use, easy installation and basic maintenance, customised data visualisation platform.

A European offer to facilitate subsurface's hydrogen exploration and the development of the natural hydrogen sector.

ABOUT 45-8 ENERGY

45-8 ENERGY is a company dedicated to the exploration and eco-responsible production of industrial gases such as helium and natural hydrogen, as well as associated resources.

45-8 ENERGY's ambition is to meet the growing need for strategic resources and to participate in Europe's search for energy independence, in a context of ecological transition and the absolute necessity to decarbonise our energy and our uses.

With secured exploration and production licenses in Europe and a production start of helium in France in 2023, 45-8 ENERGY is strengthening its position as European leader and accelerating its international development.



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