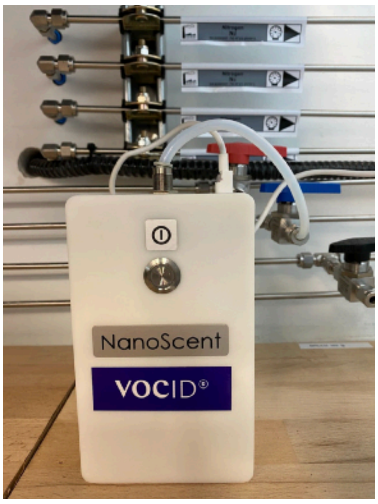
VOCID® H2 Confirm

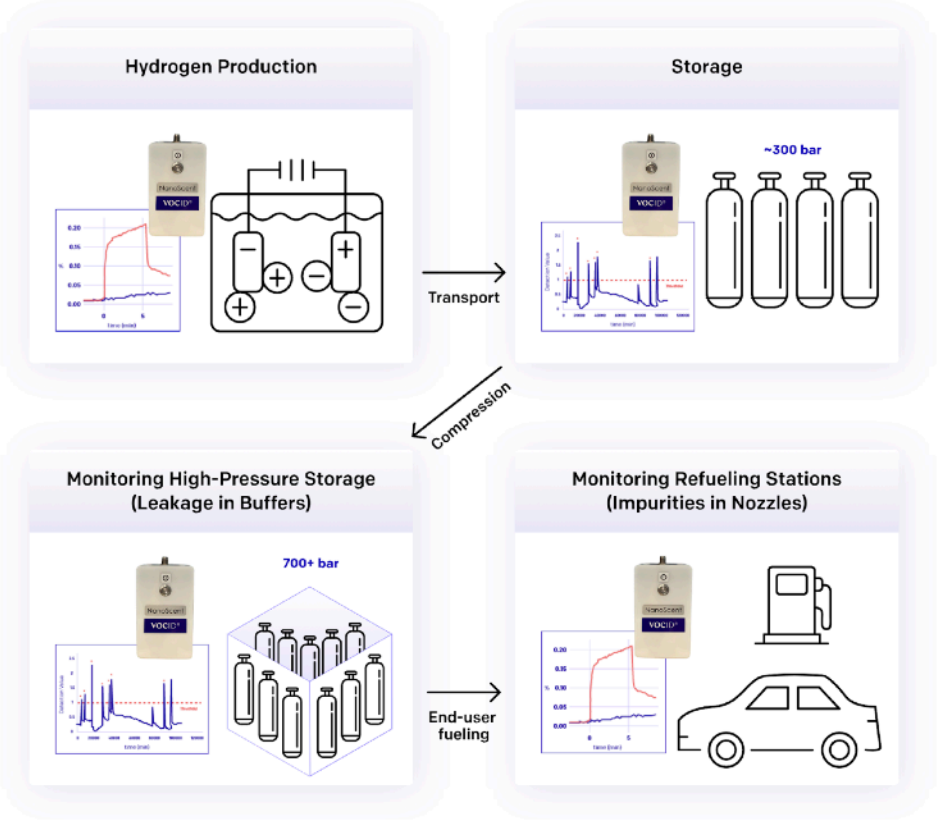
nanoscent

Monitoring Hydrogen Quality in Real-time

VOCID® **H2Confirm** is NanoScent's inline and online sensor monitoring solution for determining hydrogen quality, making it possible for you to detect various types of hydrogen impurities in real-time with a single solution, and receive alerts upon contamination events.

VOCID® **H2Confirm** is intended to be used as a spot measurement tool and to provide indications regarding the level of the purity of hydrogen.





Specific Applications

- Hydrogen refuelling stations quality control
- Fuel cell power plant maintenance
- Warning system for faults in hydrogen production plants
- Monitoring hydrogen quality from electrolyzer production
- Gas line purity quality control
- Hydrogen purity control for industries using it as a raw material

Benefits of Using VOCID® H2Confirm

- Continuous monitoring on-site and in real-time
- All-in-One Solution
- Easy & flexible integration
- Standard interface for multiple settings
- Off-grid friendly

October 2022

nanoscent

Product Specification	
Small Size & Packing	15.3 X 9 X 6.5 cm, Explosion-proof 5-liter certified box
Connections	UNF 1/8"
Power Supply	24V
Communication	Ethernet
Product Input / Output	**Input**: Start measurement; **Output**: Binary result, error(s)
Reference Gas	Hydrogen 5.0 @ 1 Lit/min
Sample Flow	1 Lit/min
Sample Pressure	1-3 bar
Sample Relative Humidity (@25°C)	RH: 0%
Sample Temperature	5-30°C ± 1°C during measurement
Measurement Frequency	Every hour
Response Time	3 minutes
Outlet	Released to the atmosphere

Sensor Specification	
Sensitive Chip (LOD)  As per ISO-14687.	Validated under hydrogen: Oxygen (5ppm), Carbon Monoxide (200ppb), Ammonia (100ppb), Water (5ppm) NPL National Physical Laboratory Validated under nitrogen: Toluene (i.e. hydrocarbons) (2ppm), Formic Acid (200ppb)

Environmental Specification	
Relative humidity (@25°C)	RH: <70%
Sample Temperature	5-30°C ± 1°C during measurement

Maintenance	
System Calibration	Hydrogen 5.0 @ 1 Lit/min, for 1 hour upon chip replacement

About NanoScent

NanoScent's strengths come from our experience and expertise in the following areas:

NanoScent is a startup founded in 2017 that provides scent recognition solutions for chemical & energy, healthcare, and the food & beverage industries for quality control and process monitoring. During the pandemic, NanoScent focused on identifying COVID-19 through breath which led to many technological breakthroughs such as measuring VOCs at the parts per billion (PPB) level and detecting aldehydes at high sensitivity and specificity. Currently, NanoScent is developing **VOC**ID® H2Confirm which is in the early market stage and we are actively working with companies to bring it to the market. NanoScent has received $10 million through equity partners, including strategic partners Dreamtech and Sumitomo Chemical, and $10 million in non-dilutive funding through grants from the European Innovation Council and the Israel Innovation Authority, as well as projects with Fortune 500 Companies.

Contact Us

Dr. Orna Barash
VP of Product

orna@nanoscentlabs.com

www.nanoscentlabs.com
Tel: +972-4-8501707