VOCID® Purity

VOCID® **Purity** is NanoScent's inline sensor controller, making it possible to detect hydrogen impurities and leakages through real-time monitoring that alerts key personnel of contamination events.

Our sensors detect gases and volatile organic compounds (VOCs), including humidity, in gas lines, and provide data in real-time to your device about readings that pass the permitted threshold.

Benefits of Using VOCID® Purity

- Sensitivity at low-cost
- Continuous monitoring on-site
- All-in-One Solution
- Off-grid friendly
- Online Interface

VOCID® Purity Specifications

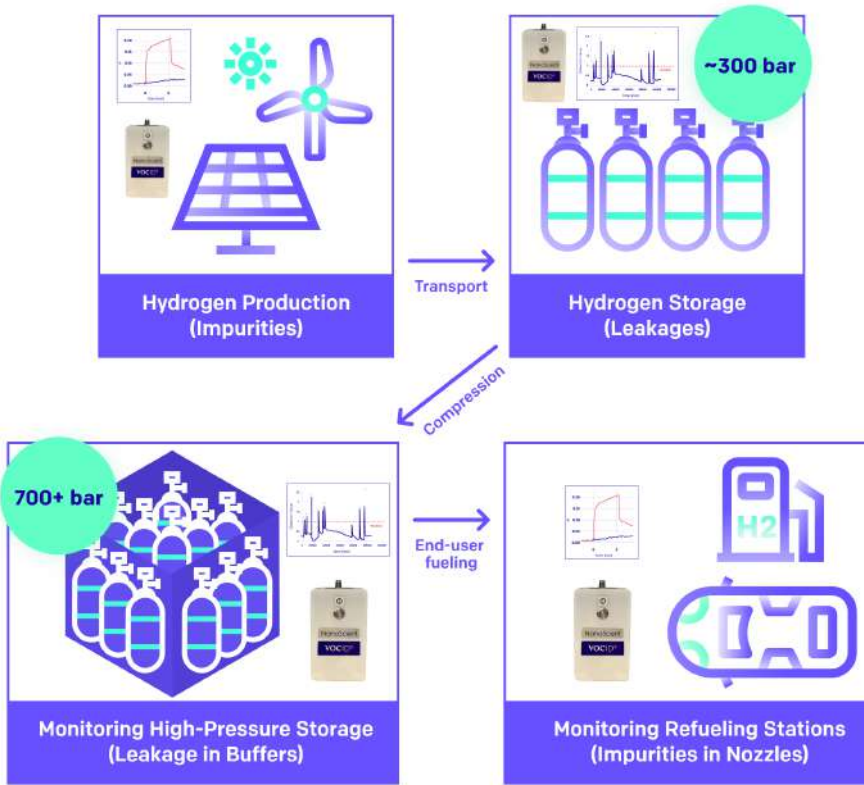| Product Description	
Sensitive Chip:	12 sensor array
Built-In:	Temperature & Humidity Sensor
LOD for various VOCs & gases	0.5 PPB - 10 PPM
Sample Pressure:	1-10 bar
Sample Flow:	100-400 mL/min
Consumable	
Replaceable chip, customised to targeted analytes & compounds.	
Environmental Specifications	
Temperature Range:	5 - 35 °C, Stable: ± 1 °C
Relative Humidity Range:	< 40%, Stable: ± 2 %
Power Requirements	
5V, 4.5 A, USB-C connector	
Communication	
Bluetooth, Wi-Fi-, Ethernet	

Hydrogen Production (Impurities) → Transport → Hydrogen Storage (Leakages) ~300 bar

Compression

700+ bar Monitoring High-Pressure Storage (Leakage in Buffers) → End-user fueling → Monitoring Refueling Stations (Impurities in Nozzles)

Specific Applications

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

Currently, **VOC**ID® **Purity** is in the early market stage and we are actively working with companies to develop the platform.

NanoScent's Core Competencies

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

Sensor Design	Sensor Production	Testing	Data Analysis

About Us

NanoScent is a startup that provides scent recognition solutions for chemical & energy, healthcare, and 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®, a platform under which multiple products, all at different stages of development, are tailored for various applications. 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

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