

HELPING THE HYDROGEN ECONOMY STAY SAFE WITH GAS DETECTION

Reference Guide

H_2

Hydrogen H_2

H_2 HYDROGEN POWER
CLEAN ENERGY OF THE FUTURE

Honeywell



Hydrogen is the clean energy source that, perhaps more than any other, has the potential to fully decarbonize our economy. It is the missing link to a reliable and sustainable energy infrastructure that powers every home, industry, and mode of transport.



HYDROGEN IS THE FUTURE

- The cost of producing hydrogen from renewable energy is predicted to fall by 30% by 2030¹.
- The clean hydrogen market is set to grow from \$894.3 million today to over \$2.5 billion by 2028².

HYDROGEN IS ALREADY HAPPENING

- Major hydrogen infrastructure, under construction in the UK, is set to eliminate 10 million tons of CO₂ emissions per year³.
- Germany is planning a nation-wide, publicly accessible hydrogen network⁴.

BUT HYDROGEN ISN'T WITHOUT RISKS

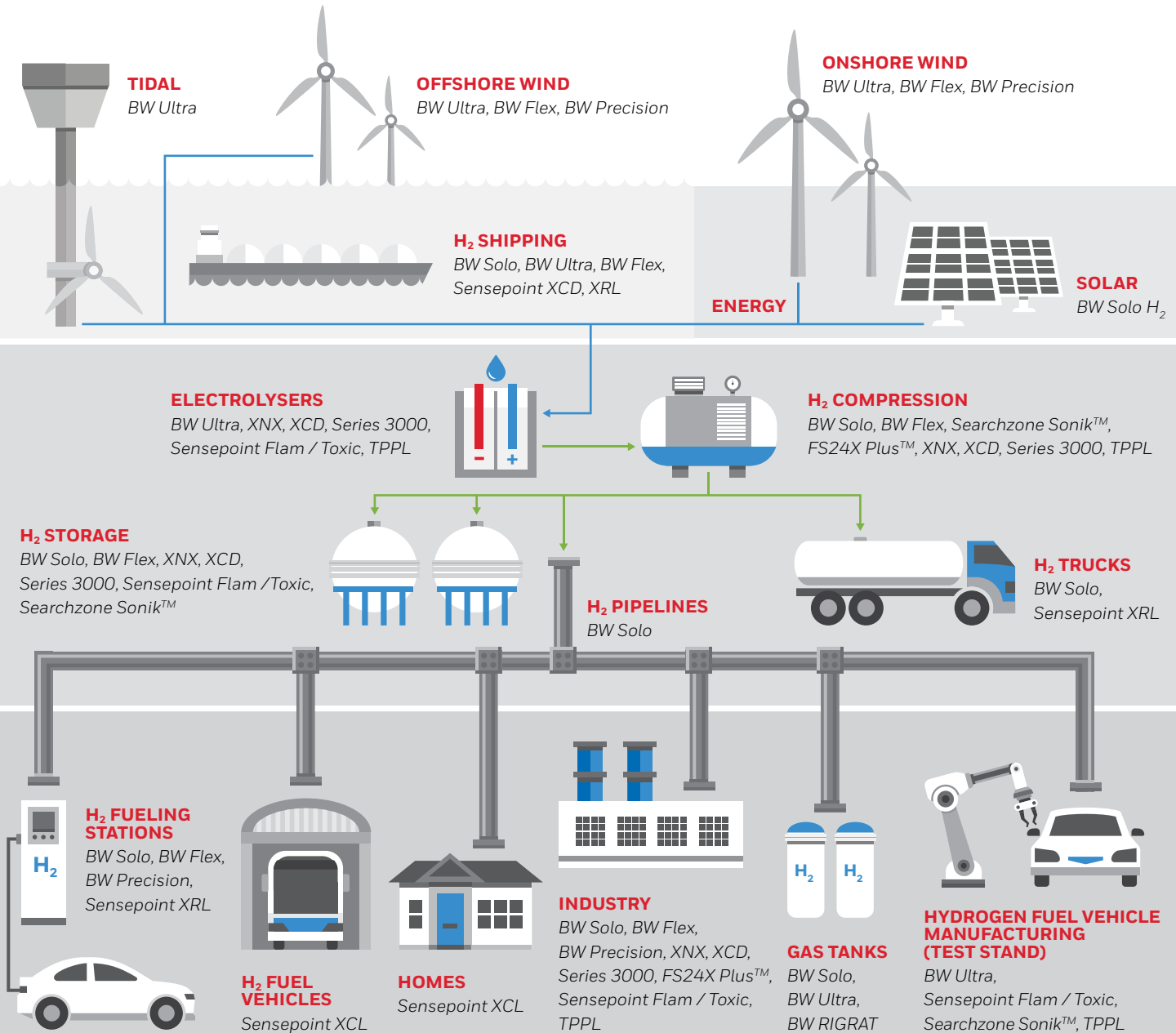
Main risks associated with hydrogen production, storage, and distribution include:

- **Asphyxiation** – hydrogen can displace oxygen
- **Fires and explosions** – hydrogen is highly flammable

¹ IEA, <https://www.iea.org/reports/the-future-of-hydrogen> The Future of Hydrogen, June, 2019 [Accessed March 25, 2021]
² Reports and Data, <https://www.globenewswire.com/news-release/2021/02/10/2173454/0/en/Green-Hydrogen-Market-Size-Worth-2-569-7-Million-By-2028-The-Alkaline-ALK-electrolyzer-segment-accounted-for-the-largest-revenue-share-among-the-technology-segments-Reports-and-Dat.html#~:text=The%20global%20green%20hydrogen%20market,report%20by%20Reports%20and%20Data>. Green Hydrogen Market Size, Share & Analysis, February, 2021 [Accessed March 25, 2021]
³ HyNet North West, <https://hynet.co.uk/news/hynet-north-west-awarded-substantial-funding/> HyNet North West awarded substantial funding, March, 17, 2021 [Accessed March 25, 2021]
⁴ OGE, <https://oge.net/en/us/projects/our-hydrogen-projects> Our hydrogen projects: Initiatives for the energy transition, 2021 [Accessed March 25, 2021]

THE HYDROGEN ECONOMY: THE CLEAN ENERGY JOURNEY

Hydrogen will transform our economy. And for every hydrogen application, there needs to be a gas detection solution.



BW Flex



BW Precision



BW RIGRAT



BW Solo



BW Ultra



FS24X Plus™



Searchzone Sonik™



Sensepoint Flammable



Sensepoint XCD



Sensepoint XCL



Sensepoint XRL



Series 3000



TPPL



XNX

KEEP HYDROGEN MONITORED WITH HONEYWELL GAS DETECTION SOLUTIONS

PORTABLE SOLUTIONS

Honeywell BW™ Solo single-gas detector

- Easy to use and maintain
- BLE connectivity enables real-time gas monitoring

Honeywell BW™ Ultra 5-gas detector

- Specifically designed for confined spaces
- Advanced sensor technology for enhanced accuracy and reliability

Honeywell BW™ Flex 4-gas detector

- Choice of more than 15 sensors to detect up to 4 gases simultaneously
- 2 months of battery runtime on a 4.5-hour charge

Honeywell BW™ Precision ^{*coming soon}

- Handheld confined-space-entry accessory that is compatible with BW Flex and converts into a motorized pump device
- Connectivity into Safety Suite for real time readings and gas analysis

Honeywell BW™ RIGRAT transportable multi-gas area monitoring

- Easy to use, with one-button operation
- 8 weeks of runtime on a single charge

FIXED SOLUTIONS

Sensepoint Flammable and Toxic Gas Detector

- Easy to install and durable

Sensepoint XRL/XCL fixed point gas detector

- Easy to install, commission, and maintain via smartphone
- Simple yet robust mechanical housing

Sensepoint XCD explosion- proof transmitter

- Ideal for hard-to-reach locations
- Monitors combustible and toxic gases in potentially explosive atmospheres

Series 3000 intrinsically-safe transmitter

- Explosion proof and intrinsically safe
- Ideal for both new and retrofit installations

XXN™ Universal Transmitter

- Low-maintenance universal platform, compatible with other safety equipment
- Compliant with Class 1/Class 2 intrinsically-safe, explosion-proof requirements



Searchzone Sonik™ ultrasonic gas leak detector

- Fast, reliable gas leak detection, even in noisy environments
- Doesn't need calibration and can withstand harsh weather conditions

FSX Plus™ flame detector ^{*coming soon}

- Can detect hydrocarbon and non-hydrocarbon fuel fires even in harsh environmental conditions
- FS24X Plus™ combines H₂ and HC (Liquid and Gas) detection eliminating the need for multiple devices

HONEYWELL ENHANCED MONITORING - MORE THAN JUST GAS DETECTION

- Network of expert service engineers
- SafetySuite Device Software for effective gas detection fleet management
- Rebellion GCI intelligent gas cloud monitoring system
- Touchpoint™ Plus (TPPL) easy-to-configure and use controller

THE
FUTURE
IS
WHAT
WE
MAKE IT

For more information
<https://sps.honeywell.com>

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