

Welcome to the April 2021 issue of H2scan Sensor News. In this issue we present:

- HY-ALERTA™ 600B is Choice for Warehouse Hydrogen Leak Applications
- MIDEL Oil Firmware Now Available
- Interview with H2scan International Accounts Sales Director
- Hydrogen Economy News Bytes

Thanks for taking a look. Please reach out with any [questions](#).

HY-ALERTA™ 600B is Choice for Warehouse Hydrogen Leak Applications

The COVID-19 pandemic has meant big increases in e-commerce sales and that is fueling the growth of the warehouse forklift truck market, which is forecast to grow to \$81B by 2027, according to recent market research by Allied Market Research. Increasingly, those forklift trucks are powered by hydrogen which offers a clean and reliable way to power these vehicles that has several significant advantages over batteries. In turn, the adoption of hydrogen is driving the market for hydrogen detectors in warehouses. H2scan's HY-ALERTA™ 600B is being tested for this application, which requires hydrogen detectors at the end of every aisle and where the forklift trucks are refueled.

The HY-ALERTA™ 600B is a fixed area hydrogen monitor that provides hydrogen-specific leak detection and measurement for hydrogen concentrations as low as 4000 ppm and up to 5% hydrogen by volume. This sensitivity is ideal for warehouses because they need accurate leak detection without false alarms. Have a warehouse or other space where you need to manage hydrogen levels?

Find out more about the HY-ALERTA™ 600B [here](#).

Firmware Supporting MIDEL Oil Now Available

In January we shared that H2scan had become the first hydrogen sensor product for transformers using Midel 7131 synthetic ester transformer oil. Utilities are increasingly considering MIDEL 7131 for its high fire and flash points, biodegradability, oxidation stability and excellent moisture tolerance.

We're pleased to announce that firmware updates to enable this are now available. Now, Midel 7131 is available as a default selectable oil type (in addition to mineral, silicone and FR3 oils). Many existing transformer products can support it immediately via manual entry of the right Ostwald coefficients. Please contact sales@h2scan.com for details.

Interview with Bill Whitehead, International Accounts Sales Director

What is a typical day like for you?

First, time goes by way too fast for me each day. Every day is different, but the end goal is always the same; connecting with people to inform them of the beauty of our H2scan solid state H2 sensor technology and solutions. Here are the main groups of people that I connect with and the main topics I cover on a weekly basis:

- Current and future partners - I learn about their business to understand how we can help drive more revenue with them and discuss how our current (and upcoming) solutions can support their business, provide commercial order guidance and technical support.
- IEEE/CIGRE/IEC and insurance partners - I listen, share and support technical content in standards/guides/test set-ups to stay involved and up-to-date on what is important to customers in the DGA transformer monitoring industry.
- H2scan team - I share market feedback, provide support and learn from a highly energized team. It is exciting and motivating to be surrounded by a team full of energy that is always ready to help each other and our customers.

What are your predictions for 2021?

My predictions for 2021 are that:

- Monitoring transformers will grow at a faster pace due to travel restrictions being lifted and more importance placed on remote Xfmr data gathering to improve maintenance planning.
- Monitoring transformers will grow because utilities now have a CAPEX/OPEX balanced solution that uses H2scan sensors that can be capitalized upfront and have minimal OPEX cost due to long-term reliability compared to other H2 technologies.
- Adding H2 monitoring to existing digital protection relays, cooling system controllers and bushing monitoring systems will be a common upgrade due to the existing infrastructure.
- H2 maintenance monitoring of other electrical assets such as vacuum type LTCs, large oil filled bushings and large instrument transformers will begin to be more seriously analyzed because the cost of the sensors is more attractive.

What excites you about the future of H2scan and / or the hydrogen economy?

Helping both grow our existing OEM partners and onboarding new OEM partners. I have been in the monitoring and diagnostic space since 2005, and back then we discussed what would be the next technology that could effectively replace both the fuel cell and thermal conductivity type hydrogen sensors in electrical equipment. Seven years later in 2012, I got my answer, a solid state nickel palladium sensor by H2scan.

H2scan solved several major challenges with the existing technology - life expectancy, improved long term accuracy and repeatability. The company has a great leading-edge technology that the major DGA monitoring companies are aware of and use today, but there are many other companies that have not yet discovered our technology. We continue to innovate to help bring more value to our OEM partners that they can bring to their customers. We are in a great position to help our partners offer DGA monitoring solutions to more transformers than ever before.

Thanks Bill!

Hydrogen Economy News Bytes

Saudi Arabia Sets Sights on Green Future

Saudi Arabia is looking to make its mark on the green hydrogen economy by building a \$5 billion plant powered using sun and wind. The plant will be part of the megacity of Neom set to open in 2025. [Keep reading](#).

By 2050, Green Hydrogen will Cost Less Than Natural Gas, Others

BloombergNEF (BNEF) is predicting that green hydrogen, produced from renewable sources of energy, will cost less than natural gas by 2050. The report estimates that green hydrogen will also be cheaper than blue hydrogen and grey hydrogen. [Learn more](#).

Green Hydrogen for Only \$1

H2Pro, an Israel-based company, is working to produce green hydrogen at \$1/kg with its water splitting device. The company just secured a \$22m investment to aid in the production of the device. [Keep reading](#).



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