

Welcome to the November 2021 issue of H2scan Sensor News.

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- See H2scan at an Upcoming Event
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Thanks for taking a look. Please reach out with any [questions](#).

Did you know...?

H2scan's sensors are proving to be a key enabler for making the hydrogen economy a reality?

GSAO-1 Analog Output Modules – Special Offer

Save money on your initial order of the H2scan GSAO-1 Analog Output Modules for the GRIDSCAN™ 5000 (Gen5) transformer products. The GSAO-1 provides a simple analog interface to any transformer monitor, relay or controller that accepts a 4-20mA input. Please contact sales@h2scan.com for information on an introductory offer that provides significant savings on GSAO-1 purchase orders received by December 15, 2021.

Top 3 Most Popular Stories of 2021

The COVID-19 pandemic was the big story of 2020 to the broader world, but readers of the H2scan Sensor News have their own biggest stories of 2021. Here are the top 3 stories that piqued your interest:

Gen5 GRIDSCAN™ GSAO-1 Analog Output Modules are in Production

H2scan is now accepting orders for its new Hydrogen Analog Output Module (GSAO-1). The GSAO-1 pairs with the GRIDSCAN™ 5000 hydrogen sensor designed for distribution transformers to provide a simple analog interface to any transformer monitor, relay or controller that accepts a 4-20mA input. The GSAO-1 allows users to change oil types and select the optimal analog output range without the need for a PC or software. Rated for a wide hydrogen and temperature range, the GRIDSCAN™ 5000 with the GSAO-1 accessory leads the industry in ease of retrofitting a hydrogen sensor package to existing transformers.

Green Hydrogen Applications

There's a lot of chatter about green hydrogen, and for good reason. Industry estimates suggest that by 2030, the U.S. hydrogen economy could generate \$140 billion per year in revenue and support 700,000 jobs. Greentech Media is exploring some of the early opportunities for green hydrogen including heating, energy storage and more. [Keep reading](#).

Transformer Partner Web Page

H2scan is not the only place where you can get access to great hydrogen sensing technology. We have assembled several industry leading partners that have integrated H2scan technology into their products. These partners use our sensors for a variety of transformer applications. To discover the full range of applications from our partners, check out the brand-new [Partner Page](#).

See H2scan at an Upcoming Event

In-person trade shows are slowly, but surely, returning! Despite all the uncertainty 2020 presented, H2scan plans to hit the road for several events around the country. To view more upcoming events, click [here](#).

ASTM International: D03 Gaseous Fuels

Date: December 7-9, 2021

Location: Anaheim Marriott; Anaheim, CA USA

About: ASTM Committee D03 on Gaseous Fuels is committed to the promotion of knowledge and the development of terminology definitions, specifications, classifications, recommended practices, and methods of sampling, analysis and testing relating to gases used as commercial fuels including but not limited to natural gas, reformulated natural gas, hydrogen, fuel cell gases and other gaseous fuels.

Dylan Thomas, H2scan electrical engineer, will be presenting a paper on Wednesday, December 8th about the Gen5 process and safety products featuring autocalibration. See details [here](#).

DISTRIBUTECH International

Date: January 26-28, 2022

Location: Dallas, TX USA Booth #448 – View the floorplan [here](#).

About: DISTRIBUTECH International is the leading annual transmission and distribution event that addresses technologies used to move electricity from the power plant through the transmission and distribution systems to the meter and inside the home. View details [here](#).

Life of a Transformer Seminar

Date: February 14-18, 2022

Location: New Orleans, LA USA

About: Doble's Life of a Transformer Seminar is a critical training opportunity for every transformer engineer and new electrical power engineer. Join the experts at the Life of a Transformer Seminar as they share their collective transformer knowledge. See details [here](#).

H2scan Podcast - Hydrogen Accuracy

In the latest episode of the H2scan Podcast, Bill Whitehead and Jeremy Reid discuss why selecting the right H2 Key Gas Sensor is important. You will learn everything you need to know about true lower detection limits, repeatability of hydrogen detection and the differences in dissolved gas analysis (DGA) samples. Bill answers questions about sensor uptime, life expectancy, cross gas sensitivity and more in this short information packed episode. Click [here](#) to watch the podcast.

Interview with Jeremy Reid, Software Engineer

What is a typical day like for you?

I typically start my day by waking up at 6 A.M. I feed my dog, the barn cats and my chickens and then take my son to school. I return home to start my workday. My typical days' work usually spans across multiple programming projects or podcast hosting and editing. In the evenings, I enjoy making a home cooked meal and eating dinner every night as a family. For the past three months, I have spent my free time in the evenings remodeling my home.

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

I'm very excited about the future projects we have in the pipeline. I'm most excited to see Automated Sensor Manufacturing (ASM) go into mass production. I can't wait to work on all the future projects we have coming up.

Thank you Jeremy!

Hydrogen Economy News Bytes

Hydrogen-powered ambulance drives into Glasgow ahead of London trial

In February, ULEMCo and industry partners announced their plans to design an electric rapid response ambulance for the UK's NHS Trust that would run on batteries and hydrogen fuel cells. As of November 3rd, the working prototype drove into Glasgow to give global leaders attending the UN's COP26 climate summit a closer look at the technology. Learn more about the Zero Emission Rapid Response Operations (ZERRO) ambulance prototype [here](#).

Commercial flights that fly 'entirely on hydrogen' planned for 2024

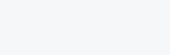
Aircraft developer ZeroAvia is developing a 19-seat aircraft that will fly entirely on hydrogen. Plans to operate commercial hydrogen-electric flights between London and Rotterdam have been announced by the company with hopes that they will be completed by 2024. Read more about the first practical zero emission aircraft [here](#).

Inside the World's First Hydrogen Fuel Cell-Powered Bus

Hyzon, a New York-based company specializing in hydrogen fuel cells for heavy-duty vehicles, has recently unveiled a hydrogen-powered coach. In less than a year, the company has introduced the first ultra-heavy hydrogen fuel cell truck and began testing 400-mile range hydrogen-powered trucks, with the goal of eventually reaching the 1,000-mile target. Click [here](#) to read more about the company's latest innovation.



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