# GAS SECURE A Dräger Company

# PRESS RELEASE

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## GasSecure and Yokogawa Provide SIL2-certified Wireless Gas Detection System for LNG Facility

GasSecure AS, a Dräger owned company, and Yokogawa Electric Corporation announce the delivery of the world's first SIL2\*1-certified wireless gas detection system for use at an LNG facility in Northern Europe. On this date, the two companies will begin promoting the unique capabilities of this system solution to companies that have a strong interest in maintaining safe and secure operations.

## Background

Yokogawa has been developing a wide variety of ISA100 Wireless\*2 technologies and field wireless devices such as adapters that enable conventional wired devices to access wireless networks, and provides them to plants and other facilities primarily in the upstream oil and gas sector. GasSecure has developed ISA100 Wireless gas detectors that can detect leaks of explosive hydrocarbon\*3 gases and are certified for compliance with the ATEX directive and the IECEx Certified Equipment Scheme, and installs them on offshore oil and gas drilling platforms and at tank farms, industrial plants, and the like. GasSecure has already supplied a number of these products to leading oil and gas companies around the world.

In 2014, GasSecure and Yokogawa concluded an agreement under which the two companies jointly developed a wireless gas detection system that would meet their customers' requirements.

### Overview of the System

This system uses GasSecure's GS01 wireless gas detectors to measure hydrocarbon gas concentrations. Using the ISA100 Wireless communications protocol, the GS01 establishes a link with a Yokogawa YFGW510 access point and sends data to a host system via a Yokogawa YFGW410 field wireless management station. Although the GS01 uses a low-power infrared sensor and is very energy efficient, it has a very fast response time. This capability of the GS01 and the utilization of dual redundant communications by Yokogawa's field wireless products make them essential components for the construction of a fast and highly reliable monitoring solution.

To meet its customers' safety requirements, GasSecure has made enhancements to the GS01 to obtain SIL2 certification for this device. For its part, Yokogawa has modified the YFGW410 so that it now supports the PROFIsafe safety communication standard, and has verified that both companies' products perform and operate as specified.

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#### **Future Direction**

In the oil & gas, chemical, and other industries, safety is a paramount concern at production, storage, and processing sites. Field wireless systems can be installed in difficult-to-wire locations and have lower cabling costs than wired systems. For these reasons, field wireless solutions are ideal for systems that collect production information such as flow rate, pressure, and temperature. And unlike other wireless technology platforms, they can be used to construct systems that perform gas detection and other safety functions, and are well suited to this purpose. With the release of SIL2-certified wireless gas detection systems, Yokogawa will actively promote its field wireless equipment and systems, and will expand this business.

**END** 

For more information please contact:

Marketing Ian Mackay +44 7769 652003 <u>ian.mackay@gassecure.com</u>

Corporate Knut Sandven +47 9778 7465 <u>knut.sandven@gassecure.com</u>

### About GasSecure

GasSecure AS, a Dräger company, develops, markets, and sells the world's first truly wireless optical gas detector for demanding industrial applications. Representing an evolution in gas detection, the detector is based on innovative ultra-low power MEMS optical technology and has introduced a new level of reliability and flexibility for the detection of gas leaks. The totally wireless detectors increase safety and dramatically reduce costs for the oil & gas, petrochemical, marine, and other process industries. For more information visit <a href="https://www.gassecure.com">www.gassecure.com</a>

<sup>\*1</sup> One of the four safety integrity levels defined in IEC61508, a standard for the functional safety of electrical and electronic equipment that was developed by the International Electrotechnical Commission (IEC). SIL2 certification is generally required for most field safety devices.

<sup>\*2</sup> A network protocol based on the ISA100.11a wireless communication standard for industrial automation that was developed by the International Society of Automation (ISA), and the applications necessary for its implementation. This was approved as the IEC62734 international standard by IEC in October 2014.

<sup>\*3</sup> A general term for compounds consisting of carbon and hydrogen, including methane, ethane, benzene, and toluene. It is the main component of oil and natural gas.

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#### About Yokogawa

Yokogawa's global network of 88 companies spans 56 countries. Founded in 1915, the US\$3.5 billion company engages in cutting-edge research and innovation. Yokogawa is active in the industrial automation and control (IA), test and measurement, and aviation and other businesses segments. The IA segment plays a vital role in a wide range of industries including oil, chemicals, natural gas, power, iron and steel, pulp and paper, pharmaceuticals, and food. For more information about Yokogawa, please visit www.yokogawa.com.

## About Dräger

Dräger is an international leader in the fields of medical and safety technology. Its products protect, support, and save lives. Founded in 1889, Dräger generated revenues of around EUR 2.43 billion in 2014. The Dräger Group is currently present in more than 190 countries and has about 13,500 employees worldwide. Please visit www.draeger.com for more information.

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