

GAS DETECTION SOLUTIONS FOR LNG APPLICATIONS



Honeywell

PROTECTING LNG WORKERS AND PLANTS EVERYWHERE



The global need for cleaner energy has raised the profile of natural gas, with global liquefied natural gas (LNG) demand expected to exceed 700 million tons a year by 2040, a 90 % increase from 2021.¹ Shell's 2022 LNG Outlook reported the United States led export growth with an increase of 24 million tons per year, while China is now the world's largest LNG importer at 79 million tons per year.

Liquefaction facilities incur significant investment costs and, once operational, manage natural gas processes with the potential for leaks. Hazardous gasses and compounds may cause injury to unprotected personnel on site. Further, because these gases may be flammable, the potential for fire or explosion is always present.

LNG facility owners and operators need reliable gas and flame detection solutions to quickly identify dangerous emissions before an incident occurs. Honeywell offers comprehensive site solutions to detect leaks and help facilities protect people, assets and the environment.

PROTECTING PERSONNEL EVERYWHERE

For more than 40 years, Honeywell has equipped individuals, production fields and transport vehicles throughout the supply chain with gas detection solutions. Accidental gas leaks pose a considerable threat to properties, the environment and human life. Honeywell manufactures and produces a comprehensive range of portable gas detectors offered in compact, lightweight designs – from simple alarm-only units to advanced, fully configurable and serviceable units. For example, the BW™ Solo provides real-time visibility into the status and safety of hazardous area workers and can detect up to 15 user-selected common and exotic gases. Honeywell BW™ RigRat excels in transportable multi-gas area monitoring. Field staff simply place the monitor within the facility to detect and alert gas threats are present.

For fixed gas solutions, our Searchline Excel™ Plus flammable hydrocarbon gas detector delivers uptime with robust detection in some of the harshest conditions. The Searchline Excel™ Edge flammable hydrocarbon gas detector delivers long-range coverage and protection for perimeter and fence-line monitoring. Both Searchline Excel™ Plus and Edge can see through thick fog – delivering fast response, alignment

LNG GAS & FLAME HAZARDS

- On-site hazards may include gases that cause asphyxia.
- Extremely low temperatures during liquefaction create freezing hazards from cold gases.
- Vapor clouds formed when natural gas warms could be flammable.
- Refrigerants and other chemicals used in the gas treatment process may also cause injury.

accuracy, and most important excellent performance in harsh environments.









OFFERING THE RIGHT SOLUTIONS FOR LNG NEEDS

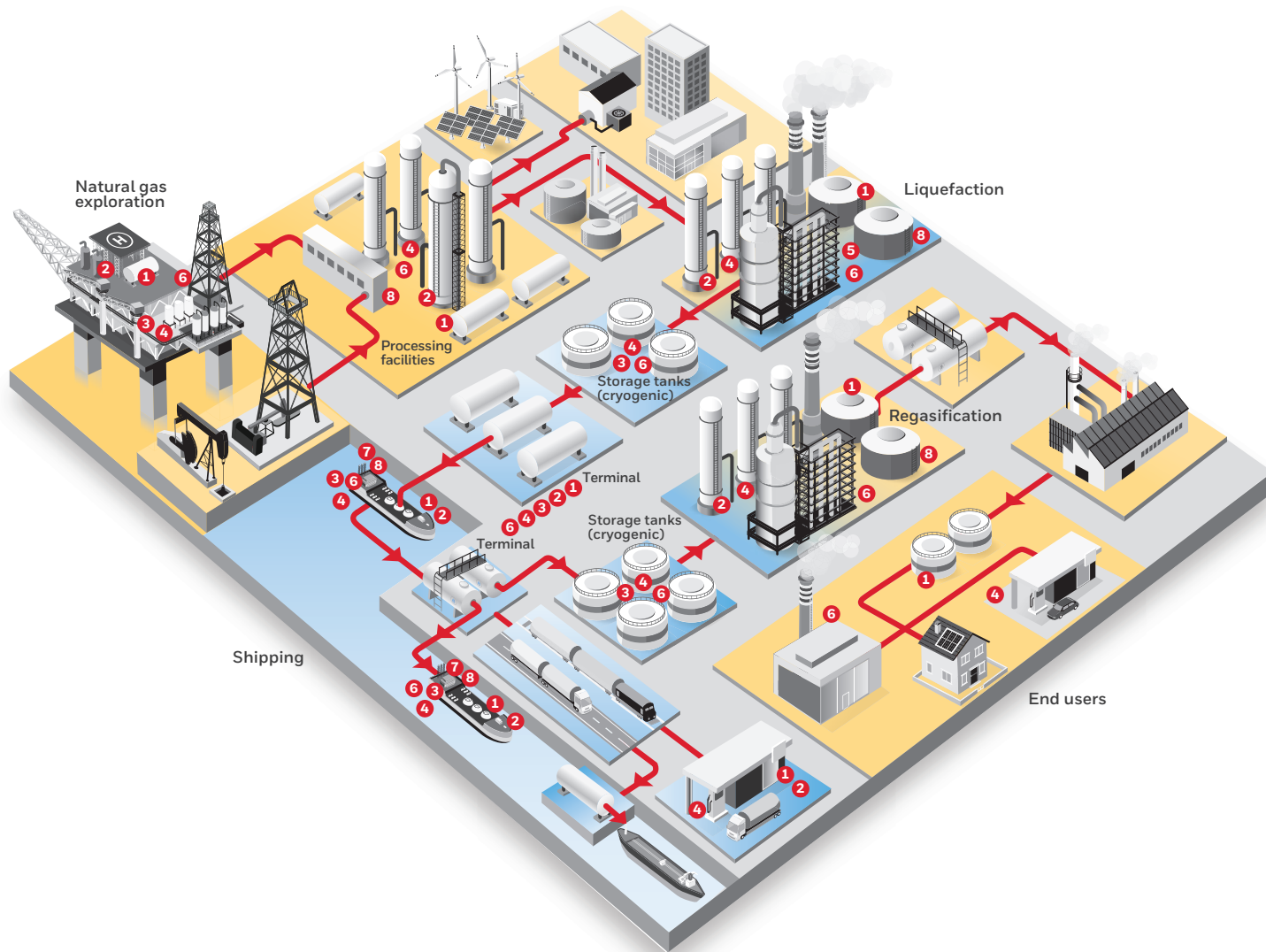
Honeywell LNG gas detection solutions help facilities create a safer workplace for everyone with features spanning coverage, detection, hazard mitigation, and life protection. Our portable and fixed solutions are among the most reliable detectors on the market, fully functional safety approved from trusted test agencies, including CSA and ATEX. Our suite of products delivers real-time monitoring of assets, promoting quick response to protect LNG facilities. Let's start a conversation about how Honeywell can help keep your LNG field staff, assets and the environment safe.

¹ <https://www.shell.com/energy-and-innovation/natural-gas/liquefied-natural-gas-lng/lng-outlook-2022.html>

SAFETY SOLUTIONS IN ACTION

Typical Honeywell gas detection devices used throughout the Liquefied Natural Gas supply chain*

	1 XNX™ Universal Transmitter		4 FS24X Plus Flame Detector		7 Honeywell BW™ RigRat
	2 Searchpoint™ Optima Plus		5 Honeywell BW™ Solo		8 Honeywell BW™ Ultra
	3 Searchline Excel™ Plus & Edge		6 Honeywell BW™ Icon/Icon+/Flex		



 NATURAL GAS

 LIQUEFIED NATURAL GAS (LNG)

* Needs may vary from project to project, please discuss the specific requirements with the user before offering the solution.

PORTABLE GAS DETECTION

Ideal for confined spaces, spot leak testing and mobile use, Honeywell's portable gas detectors provide real-time visibility into the status and safety of hazardous-area workers, helping companies respond faster, more knowingly and decisively to safety incidents. Click on the product names below to learn more.



Honeywell BW™ Solo

- Serviceable single-gas detector with wireless capability to enable connected worker



Honeywell BW™ Icon/ Icon+/Flex

- Disposable/serviceable four-gas detectors for multiple gas hazards in a simple-to-use device



Honeywell BW™ Ultra

- Portable five-gas detector designed specifically for sampling and monitoring confined spaces



Honeywell BW™ RigRat

- Transportable multi-gas area monitor with up to eight weeks of runtime

FIXED GAS DETECTION

When fast and informed decisions make the difference between life and death, you need full control of your gas detection system. It's easier than ever to ensure safety and compliance, while also reducing setup and operation time and minimizing the need for training. With Honeywell's industrial gas detectors, you never have to trade off on the flexibility or reliability of your control system, making the best decisions at a glance. Click on the product names below to see how.



XNX™ Universal Transmitter

- Universal transmitter for toxic, oxygen and combustible gas detection. Support a wide range of sensors on a common platform and offers a modular choice of inputs and outputs



Searchline Excel™ Plus and Edge

- Line-of-sight infrared perimeter monitoring of flammable gases and vapors



Searchpoint Optima Plus

- Point infrared flame detection of a wide range of hydrocarbons and vapors



FS24X Plus Flame Detector

- Advanced triple IR Flame detector for Hydrocarbon and Hydrogen fires in one device

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THE
FUTURE
IS
WHAT
WE
MAKE IT

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