

Gas Transmitter

Innoteco's gas transmitters are optimized solutions that can stably and accurately measure various green energy carriers such as hydrogen (H₂), oxygen (O₂), and ammonia (NH₃).

The hydrogen and oxygen gas transmitters are built with explosion- and leakage-proof enclosures, delivering specialized performance in high-risk hydrogen facilities such as water electrolysis systems and fuel cell stacks.

They are designed around high-precision microprocessors, offering fast response times and high reliability, and allowing real-time monitoring of subtle concentration changes to ensure safe operations.

The system also supports various communications interfaces and gas sensors, allowing for customized configurations to meet specific client requirements.



Hydrogen gas transmitter



Oxygen gas transmitter



Gas transmitter display

	Hydrogen	Ammonia	Methane	Oxygen
Type	Thermal conductivity Catalytic combustible Semiconductor	Electrochemical Semiconductor	Catalytic combustible Semiconductor	Electrochemical
Detector range	0~4% 90~100% (user-selectable)	0~100ppm	0~5%	0~5% (user-selectable)
Power	24V DC ± 2V DC (1.2A max.)			24V DC ± 2V DC (50mA max.)
Output	0~5V, 4~20mA			-
Explosion proof rating	Ex dII c T6			-
Usage	Hydrogen production storage transportation facilities	Ammonia utilization facility for smart livestock (Indoor air)	Urban gas LNG utilization facilities	Facility with risk of oxygen mixing



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Gas sensing and more

Innoteco Inc., is forefront manufacturer and has specialized gas sensor technology. Our innovative products, which protect lives and property from gas hazards and embody and healthy human life, create the greatest value.



Homepage



Gas sensing & more
INNOTECO



Innoteco Inc. is a company specializing in gas sensors.

Our innovative products are designed to protect lives and property from gas-related hazards, placing the highest value on creating a pleasant and healthy living environment for humanity.

Based on our gas detection technology, we have continuously developed technologies to commercialize innovative products applicable to various fields including industrial, household, livestock, and medical sectors.

In particular, in response to the carbon-neutral era, we are focusing on developing hydrogen, oxygen, and ammonia gas sensors in an effort to realize a safe hydrogen economy and contribute to the future energy society.

We have also developed smart applications that allow users to easily and conveniently operate our systems.

These applications provide various functions that support simple and accessible gas detection system management for all users.

Innoteco protects your safety with advanced technology and drives the future through innovation.

With our precision sensor technology, we strive to create a better environment and a smarter world.

Going forward, we remain committed to being the first to detect unseen dangers and to setting new standards in technologies that protect both people and the environment.

Gas Sensor

Innoteco is a professional company that develops and manufactures sensor solutions for household and industrial purposes, based on innovative gas sensor technology.

We design and produce sensors and sensor modules using our proprietary technology to precisely detect a wide range of gases including hydrogen (H₂), oxygen (O₂), ammonia (NH₃), carbon monoxide (CO), and hydrocarbons (e.g., CH₄).

Our flagship Inno series is engineered to deliver stable performance across diverse environments, offering high sensitivity, exceptional precision, easy installation, and long-term reliability.

In addition to compact and low-power sensor technologies, we offer customized solutions tailored to customer needs through optimized communication interfaces and data integration features for Internet of Things (IoT) and smart industrial environments.

Hot-wire type	Electrochemical	Thermal conductivity	MEMS
Contact combustion type Heated semiconductor type	Electrochemical	Thermal conductivity	Semiconductor
Hydrogen(H ₂) Ammonia(NH ₃) Methane(CH ₄) LPG LNG	carbon monoxide(CO) Ammonia(NH ₃) Oxygen(O ₂)	high concentration of hydrogen(H ₂)	Hydrogen(H ₂) carbon monoxide(CO) Methane(CH ₄)

Patents & certificates



GAS SMARTER™

GAS SMARTER™ is a smart gas alarm system that detects carbon monoxide and sends real-time alerts to the user's smartphone. Through a dedicated mobile app, users are guided on the current gas status and the appropriate safety actions.

When a hazard is detected, the system is designed to automatically notify emergency responders or registered guardians, assisting in rapid response.

Powered by high-sensitivity sensors and wireless communication technology, it helps prevent carbon monoxide accidents in a variety of settings such as homes, vehicles, accommodations, and industrial sites.

Designed for easy installation and use, the system offers real-time monitoring and an intuitive smartphone app, interface, delivering both convenience and safety for all users.

GAS SMATER™ - PRO

Rechargeable battery - no need to replace disposable batteries

Convenient and safe use by linking with a smartphone

Compact and lightweight - portable enough to fit in one hand

GAS SMATER™

Smartphone and smartwatch connectivity
The device pairs with the app via Bluetooth, allowing you to check gas status directly from your smartphone or smartwatch.

Bluetooth Connection with Smartphone
Connect the device to the app via Bluetooth to easily monitor gas levels from your smartphone.

Real-time concentration, temperature, and humidity
Easily monitor real-time CO levels, temperature, and humidity all at once through the app.

Real-Time Location Tracking with GPS
Using your smartphone's GPS, the app can identify your location while measuring gas levels.

GPS Functionality & Emergency Text Alerts
Set up emergency contacts to automatically send SOS messages along with your smartwatch in urgent situations.

Automatic Emergency Text Alerts
When emergency contacts are set, text messages are sent automatically in critical situations

Electrochemical	Detection Method	Electrochemical
Carbon Monoxide	Target Gas	Carbon Monoxide
LED blinking, Buzzer alert, Voice guidance	Display Method	LED blinking, Buzzer alert, Voice guidance
Charging: 5V, 2A / Battery: 3.7V 700mA	Rated Voltage	Charging: 5V, 2A / Battery: 3.7V 700mA
4.5mW	Power Consumption	4.5mW
-20°C~+40°C, ≤ 85%R	Operating Temp./Humidity	-20°C~+40°C, ≤ 85%R
95g	Weight	80g
38(W)x120(H)x34(D)mm	Dimensions	86(W)x86(H)x37(D)mm