GDS ENGINEERING

2026 / PRODUCT CATALOG

Industrial gas safety solutions

Detection / Control / Integrated monitoring



ASGD-3000SP

Explosion-proof / aspirating



GD2020

Explosion-proof / diffusion

SINCE 1997 | gdseng.co.kr

Company profile

GDS ENG Co., Ltd.

Gas safety technology for semiconductor and industrial sites. From gas detectors and receiving/control units to integrated monitoring, systems are configured to suit the gases and installation conditions at each site.

Company information

Company	GDS ENG Co., Ltd.
CEO	Shin Sang-yong
Business registration	129-86-71436
Business began	27 June 1997
Main business	Semiconductor gas detectors: toxic, combustible and oxygen
Head office / R&D	Room 605, Bldg. B, Ssangyong IT Twin Tower, 531 Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Website	gdseng.co.kr
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Milestones

1997 GDS Engineering began operations

1999 Developed digital automatic fire-extinguishing equipment

2006 Developed an aspirating multi-gas detector

2012 Incorporated as GDS ENG Co., Ltd.

2019 Strengthened quality, environmental and occupational safety management systems

2024 Established the corporate R&D center

2025 Expanded venture business and materials, parts and equipment capabilities

Company details: supplied materials / History: gdseng.co.kr/company/history

Explosion-proof aspirating detectors

EXPLOSION-PROOF / ASPIRATING

ASGD-3000SP

Filters and a noise-gas filtering algorithm selectively detect the target gas. A built-in pump draws gas in; operating status is shown on the TFT display.



Target gases	Combustible / toxic / oxygen; sensor selection
Output / comms	4-20 mA / Modbus TCP
Power	DC 24 V or PoE, selectable
Additional output	RS-485 Modbus / relay contacts

Modbus TCP configuration uses PoE power.

LEGACY MODEL / EXPLOSION-PROOF

ASGD-3000S

An explosion-proof aspirating detector for combustible and toxic gases and oxygen. A built-in pump and digital display show concentration and connect to receiving equipment.



Sampling	Automatic aspirating
Output / link	4-20 mA / RS-485 Modbus / PoE
Power	DC 24 V / PoE; configured options
Alarm output	Relay contacts

Confirm the specification for the installed legacy ASGD-S and its interfaces.

Explosion-proof diffusion detectors

EXPLOSION-PROOF / UNIVERSAL

GD2020

Sensor options support detection of combustible and toxic gases and oxygen. The diffusion detector displays concentration and alarm status at the site.

Sampling	Diffusion
Output	4-20 mA
Power	DC 24 V
Optional interface	RS-485 Modbus / relay contacts



Select the sensor for the target gas and installation environment.

EXPLOSION-PROOF / TRANSMITTER

PGR-TR

An explosion-proof detector that sends combustible-gas concentration signals to a receiving panel. Standard 4-20 mA output connects to receivers such as MCU9000.

Sampling	Diffusion
Target gas	Combustible gas; sensor selection
Output	4-20 mA
Power	DC 24 V



Connects to receiving or monitoring equipment with a 4-20 mA input.

Non-explosion-proof detectors

NON-EXPLOSION-PROOF / DETECTOR FAMILY

GD-T300

A non-explosion-proof product family for combustible and toxic gases and oxygen. Select a suitable sensor and view concentration and alarm status at the site.

Area	Non-hazardous area
Output / link	4-20 mA / optional RS-485 Modbus
Power	DC 24 V
Alarm output	Relay contacts



Product-family image includes GD-T300.

Sensor and interface specifications depend on the gas and site conditions.

NON-EXPLOSION-PROOF / ASPIRATING

DV2000S

An aspirating detector configurable for different gases according to the installed sensor. A built-in pump and digital display show concentration and status.

Target gas	Selected according to installed sensor
Output / comms	4-20 mA / Modbus TCP
Power	DC 24 V or PoE, selectable
Configuration	Aspirating / front digital display



Photograph: example configured for N2O detection.

Select the sensor for the gas and measurement range. Modbus TCP uses PoE.

Local receiving and display units

NON-EXPLOSION-PROOF / SINGLE-POINT

SCU1000

A receiving and detection unit available with a separate sensor or an integrated sensor. A large segment display shows combustible, toxic or oxygen concentration.

Sensor	Separate / integrated
Input	4-20 mA
Output / link	4-20 mA / RS-485 / optional PoE
Alarm output	Relay contacts



Photograph: SCU-1000S.

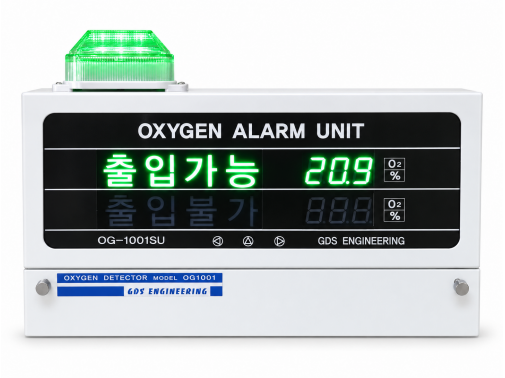
Select the sensor and interfaces for the site specification.

OXYGEN RECEIVER / ACCESS STATUS

OG1001

Connects to an oxygen detector to show oxygen concentration and a Korean-language indication of whether entry is permitted. A three-digit display and warning light indicate alarm status.

Connected detector	Oxygen (O2) detector
Input	4-20 mA
Display	Three-digit concentration / Korean access status
Example connection	GD-T300 oxygen detector



Photograph: OG-1001SU.

Displays alarm and entry status according to oxygen concentration.

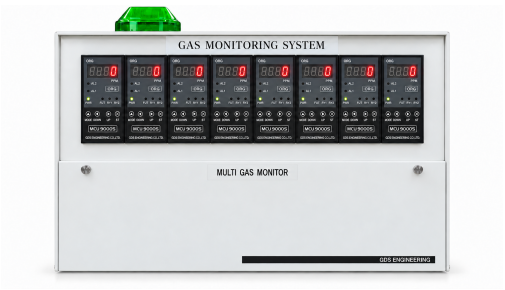
Multi-channel receiving and monitoring

4-10 CHANNELS / RECEIVING PANEL

MCU9000

Receives detector signals by channel and displays concentration, low- and high-level alarms and faults. Channels are configured for the site.

Channels	4-10 channels
Input	4-20 mA
Output / link	4-20 mA / RS-485 Modbus
Module power	DC 24 V (MCU9000S)



Example: 8-channel configuration.

Receiver module: MCU9000S / relay contact output on alarm.

RECEIVING PANEL / GAS MONITORING

GMS-1000

A gas monitoring panel showing concentrations and status from multiple detectors on one screen. Configure channels and interfaces for the site.

Power	AC 220 V
Connections	4-20 mA and PoE
Local display	Concentration and status per detector
Configuration	Monitoring channels and links per site



Example channel configuration varies by site.

Configure the panel for supported detector signals and operating conditions.

GAS DETECTION SYSTEM

Protecting safety together.

Detection / Control / Integrated monitoring

From product selection to integration at your site.

GDS ENG Co., Ltd.

Product inquiries and technical documents

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