

SCS-GDS Combustible/Toxic Gas Detection and Alarm System

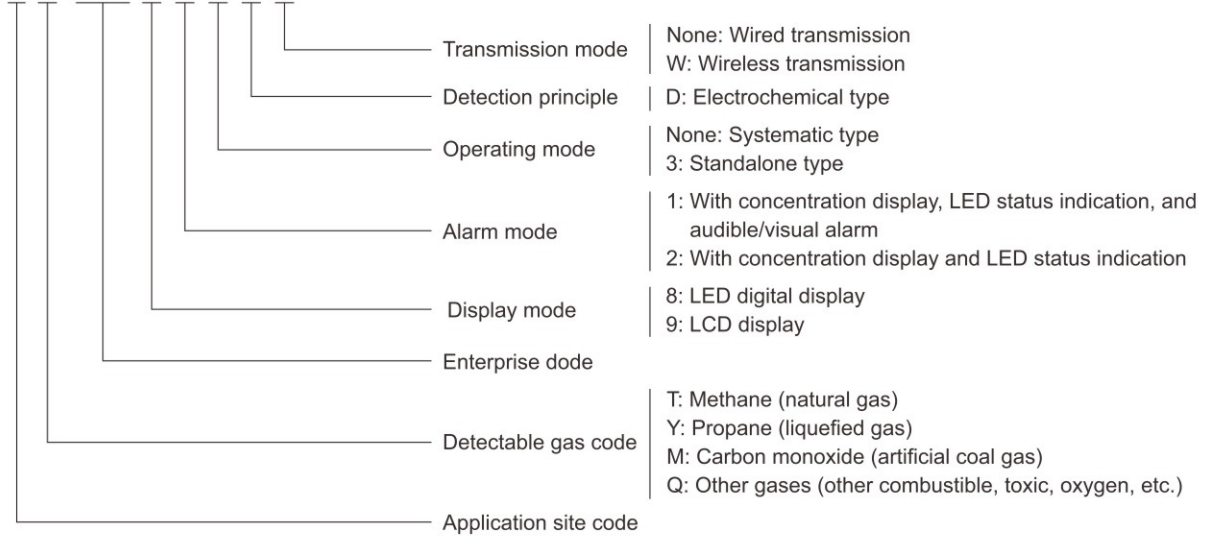
G□-WRS Point-type Toxic/Combustible Gas Detectors for Industrial and Commercial (Electrochemical Type)



- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Explosion-proof design with flameproof enclosure, suitable for indoor and outdoor explosive gas and dust environments, ensuring safety and reliability.
- ◆ LCD or LED digital screen for on-site concentration display, LED indicators for on-site status: "Normal" indicated by green light, "Fault" by yellow light, and "Alarm" by red light.

■ Catalogue number logic

G □ - WRS □ □ □ □ □ □



■ Product features

- ◆ The detector is equipped with an integrated infrared receiving module, enabling on-site zero calibration and other settings via an infrared remote control.
- ◆ The sensor module features a hot-swappable design, facilitating easy installation and maintenance; replacement of the module does not require re-calibration and can be used directly.
- ◆ The product continuously monitors toxic and harmful gases in industrial and commercial environments, converting gas concentration and system information into digital signals for transmission to the gas alarm control system for identification, display, and processing.
- ◆ Utilizes a high-precision, highly linear and repeatable, long-life, new-generation electrochemical sensor capable of measuring over 60 types of toxic and harmful gases, meeting the latest national standards, with a sensor lifespan exceeding 3 years.

Zones 1&2; 21&22

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Technical data

Point-type Toxic/Combustible Gas Detectors for Industrial and Commercial (Electrochemical Type)

G□-WRS

Explosion protection

Global (IECEX)	IECEX NEP 25.0081X
Gas and dust	Ex db IIC T6 Gb Ex tb IIIC T80°C Db
Europe (ATEX)	ACE25ATEX054X
Gas and dust	⊕ II 2 G Ex db IIC T6 Gb ⊕ II 2 D Ex tb IIIC T80°C Db

Certificates

IECEX; ATEX

Conformity to standards

IEC 60079-0, IEC 60079-1, IEC 60079-31, EN 60079-0, EN 60079-1, EN 60079-31

Power supply

Systematic: 3.7, 12, 24VDC
Standalone: 220VAC

Power consumption

<3W

Output signal

Three-wire system: 4~20mA/RS485 (MODBUS protocol), optional relay output function

Inlet specification

M20×1.5 internal, optional NPT1/2"

Transmission method

4G, 5G, NB-IoT, LoraWAN, etc.

Gas to be detected

Toxic gases (refer to the toxic gases list)

Detection principle

Electrochemical type

Measurement range

0~100μmol/mol

Accuracy

±3%FS

Repeatability

≤2%

Protection rating

IP65/IP66

Temperature range

-40°C~+55°C/-40°C~+70°C

Humidity range

<95% (no condensation)

Toxic Gases List

Oxygen	Nitric Oxide	Ethylene Oxide
Carbon Monoxide	Nitrogen Dioxide	Hydrogen Chloride
Hydrogen Sulfide	Sulfur Dioxide	Hydrogen Fluoride
Hydrogen	Vinyl Chloride	Hydrogen Cyanide
Ammonia	Methanol	Tetrahydrothiophene
Chlorine	Formaldehyde	

Dimension drawings (all dimensions in mm) - subject to alteration

