

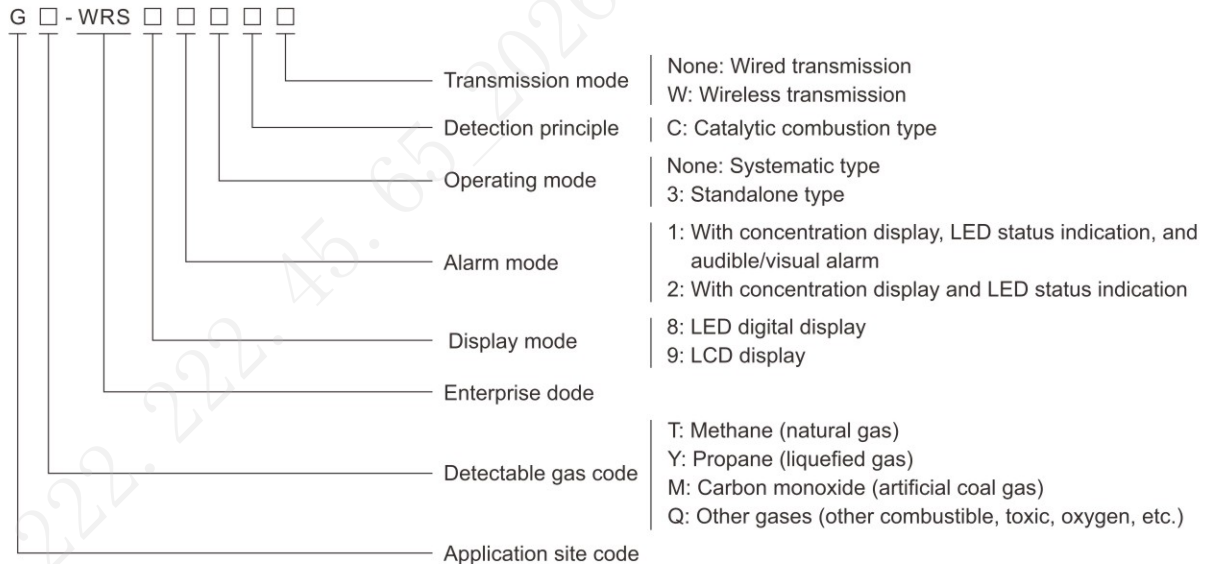
SCS-GDS Combustible/Toxic Gas Detection and Alarm System

G□-WRS Point-type Toxic/Combustible Gas Detectors for Industrial and Commercial (Catalytic Combustion 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



■ 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 combustible gases within the lower explosive limit 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.
- ◆ It employs a new generation of low-temperature catalytic combustion sensors with anti-poisoning, high precision, and sensitivity, offering strong anti-interference capabilities, broad-spectrum longevity, and compliance with the latest national standards, with a sensor lifespan exceeding three years.

Zones 1&2; 21&22

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Technical data

Point-type Toxic/Combustible Gas Detectors for Industrial and Commercial (Catalytic Combustion 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	Combustible gases (refer to the list of combustible gases)
Detection principle	Catalytic combustion type
Measurement range	(3~100)%LEL
Accuracy	±3%LEL
Repeatability	≤2%
Protection rating	IP65/IP66
Temperature range	-40°C~+55°C/-40°C~+70°C
Humidity range	<95% (no condensation)



Combustible Gases List

Methane	Ethylene	Pentane	Isobutane	Paint Thinner, Kerosene
Toluene	Ethyl Acetate	Hexane	Isopropanol	Ether
Methanol	Propane	Heptane	Cyclohexane	Methyl Butyl Ketone
Methyl Formate	Propanol	N-octane	Cyclopentane	Natural Gas
Ethyl Formate	Propylene	Nonane	Propylene Oxide	Liquefied Petroleum Gas (LPG)
Ethane	Acetone	Carbon Monoxide	Ethylene Oxide	Petroleum Gas
Acetylene	Butane	Ammonia	Dimethyl Ether	Propylene Glycol
Ethanol	Butanone (Methyl Ethyl Ketone)	Hydrogen	Xylene	
Ethylbenzene	Butadiene	Benzene	Gasoline	

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

