

SCS-GDS Combustible/Toxic Gas Detection and Alarm System

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

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

