



# GAS & SPECIALTY SENSORS

## TOXIC & COMBUSTIBLE GAS DETECTOR

### GDS SERIES

#### DESCRIPTION

The **GDS Series Gas Detector** is a stand-alone micro-processor-based system for continuous, effective monitoring of toxic and combustible gases. The **GDS Series** provides a 4-20 mA output in proportion to the level of gas present and two relay outputs to activate additional horns, strobes, or ventilation systems. The modular design adds functionality and flexibility with pre-calibrated plug-in sensors. The unit features a two-line LCD for local indication, self test diagnostics, and built-in 85 dBA buzzer. The rugged NEMA 4 polycarbonate housing is resistant to rust, corrosion, and dents.

#### FEATURES

- *Pre-calibrated plug-in sensors*
- *Built-in 85 dBA buzzer*
- *4-20 mA and two relay outputs*
- *Wide variety of gases detected*
- *Two-line LCD display*
- *Wall or duct mount*
- *Easy installation, commissioning, and operation*
- *LED status indication*
- *Password protection*
- *NEMA 4 enclosure*

**NEW!**



GDS



Optional Explosionproof  
GMT  
(see Hazardous  
Locations section)

**Kele**



- *Gases detected*
  - Carbon monoxide*
  - Nitrogen dioxide (diesel exhaust)*
  - Oxygen*
  - Hydrogen*
  - Hydrogen Sulfide*
  - Methane (CH<sub>4</sub>)*
  - Propane (C<sub>3</sub>H<sub>8</sub>)*

#### SPECIFICATIONS

<b>Power supply</b>	17-27 VAC, 50/60 Hz, 0.35A; 24-38 VDC	<b>Display resolution</b>	
<b>Sensing technology</b>		<b>CO</b>	1 ppm
<b>CO, O<sub>2</sub>, H<sub>2</sub>S, NO<sub>2</sub></b>	Electrochemical for toxic gases	<b>O<sub>2</sub></b>	0.2%
<b>CH<sub>4</sub>, C<sub>3</sub>H<sub>8</sub>, H<sub>2</sub></b>	Catalytic combustion for combustible gases	<b>H<sub>2</sub>S, NO<sub>2</sub></b>	0.2 ppm
<b>Detection Range</b>		<b>CH<sub>4</sub>, C<sub>3</sub>H<sub>8</sub>, H<sub>2</sub></b>	0.5%
<b>CO</b>	0-250 ppm	<b>Display</b>	8 character, two-line LCD
<b>O<sub>2</sub></b>	0% to 25%	<b>Average sensor life</b>	
<b>H<sub>2</sub>S</b>	0-50 ppm	<b>CO</b>	6 years
<b>NO<sub>2</sub></b>	0-10 ppm	<b>Others</b>	2 years
<b>CH<sub>4</sub>, C<sub>3</sub>H<sub>8</sub>, H<sub>2</sub></b>	0% to 100% LEL	<b>Calibration interval</b>	6 months
<b>Output</b>	4-20 mA and two DPDT relays, 5A @ 250 VAC	<b>Operating temp</b>	
<b>Alarm contacts</b>	DPDT pilot duty, 150 VA max inductive, 5A @ 30 VDC, 250 VAC	<b>CO</b>	-4° to 122°F (-20° to 50°C)
<b>Audible alarm</b>	85 dBA @ 10 ft (3m)	<b>Others</b>	-40° to 122°F (-40° to 50°C)
<b>Visual indicators</b>	Green LED: power Amber LED 1: Alarm/fault Amber LED 2: Alarm/fault	<b>Enclosure</b>	Polycarbonate
		<b>Approvals</b>	UL61010, CSA C22.2
		<b>Dimensions</b>	8.1"H x 5.9"W x 2.7"D (20.6 x 14.9 x 6.7 cm)
		<b>Weight</b>	0.86 lb (0.35 kg)
		<b>Warranty</b>	1 year

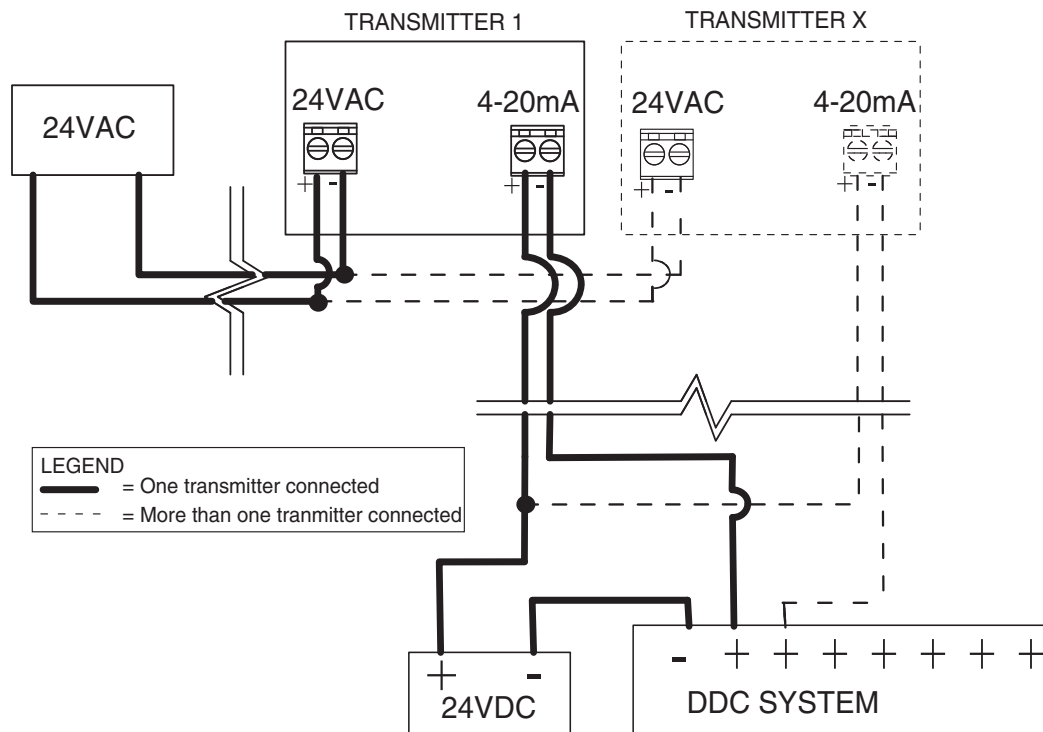
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### WIRING



**CAUTION:** Not to be used as a life-safety device.

### ORDERING INFORMATION

#### MODEL

Wall mount  
GDS-WCO  
GDS-WH2S  
GDS-WNO2  
GDS-WO2  
GDS-WH2  
GDS-WCH4  
GDS-WC3H8

#### DESCRIPTION

Carbon Monoxide gas detector, wall mount  
Hydrogen Sulfide gas detector, wall mount  
Nitrogen Dioxide gas detector, wall mount  
Oxygen gas detector, wall mount  
Hydrogen gas detector, wall mount  
Methane gas detector, wall mount  
Propane gas detector, wall mount

#### Duct mount

GDS-DCO  
GDS-DH2S  
GDS-DNO2  
GDS-DO2  
GDS-DH2  
GDS-DCH4  
GDS-DC3H8

Carbon Monoxide gas detector, duct mount  
Hydrogen Sulfide gas detector, duct mount  
Nitrogen Dioxide gas detector, duct mount  
Oxygen gas detector, duct mount  
Hydrogen gas detector, duct mount  
Methane gas detector, duct mount  
Propane gas detector, duct mount

CKITS, UCK  
GAS-xx-xx

#### RELATED PRODUCTS

Calibration kits  
Test gas (see Gas Cylinders and Safety Equipment page)

8

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