



DESCRIPTION

The **GDS Series Gas Detector** is a standalone 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 a built-in 85 dBA buzzer. The rugged polycarbonate housing is resistant to rust, corrosion, and dents.

The **GDS Series Gas Detector** is designed to be used as part of a control system that helps to prevent the formation of a hazardous environment when properly installed and maintained. For more information on the proper application and use of this product please read "Environmental Safety Devices" in our technical reference section.



GDS

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**
- **Gases detected: Carbon monoxide (CO), Nitrogen dioxide (NO₂ - diesel exhaust), Oxygen (O₂), Hydrogen (H₂), Hydrogen Sulfide (H₂S), Methane (CH₄), Propane (C₃H₈)**

SPECIFICATIONS

Supply Voltage	17-27 VAC, 50/60 Hz, 0.35A; 24-38 VDC	Visual Indication	
Signal Output	4-20 mA	Green LED	Power
Alarm Relay Output	DPDT pilot duty, 150 VA max inductive, 5A @ 30 VDC, 250 VAC	Amber LED 1	Alarm/fault
Alarm Auditory Levels	85 dBA @ 10 ft (3m)	Amber LED 2	Alarm/fault
Measurement Range		Display	8 character, two-line LCD
CO	0-250 ppm	Display Resolution	
O₂	0% to 25%	CO	1 ppm
H₂S	0-50 ppm	O₂	0.2%
NO₂	0-10 ppm	H₂S, NO₂	0.2 ppm
CH₄, C₃H₈, H₂	0% to 100% LEL	CH₄, C₃H₈, H₂	0.5%
Sensing Technology		Operating Temperature	
CO, O₂, H₂S, NO₂	Electrochemical	CO	-4° to 122°F (-20° to 50°C)
CH₄, C₃H₈, H₂	Catalytic combustion	All Others	-40° to 122°F (-40° to 50°C)
Calibration Interval	6 months	Enclosure	Polycarbonate
Life Expectancy		Dimensions	8.1"H x 5.9"W x 2.7"D (20.6 x 14.9 x 6.7 cm)
CO	6 years	Approvals	UL61010, CSA C22.2
All Others	2 years	Weight	0.86 lb (0.35 kg)
		Warranty	1 year

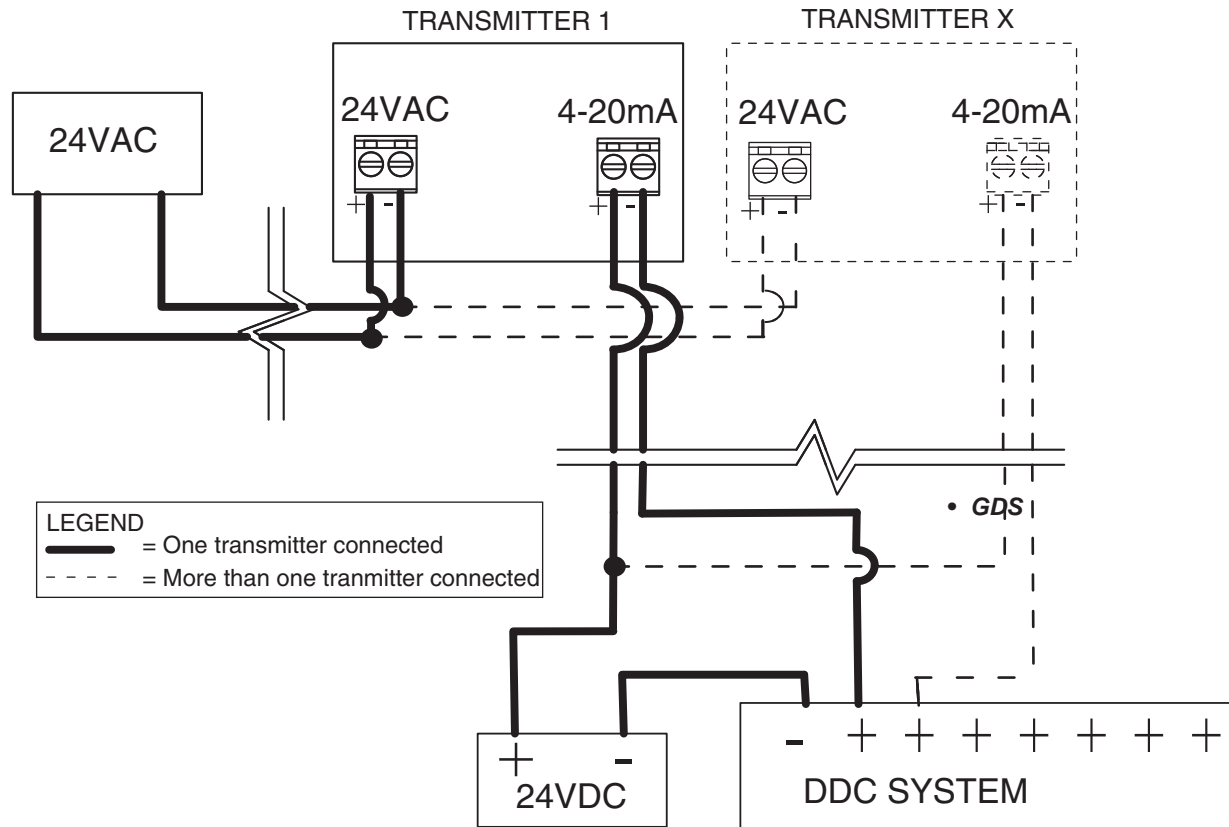


GAS & SPECIALTY SENSORS

TOXIC AND COMBUSTIBLE GAS DETECTOR

GDS SERIES

WIRING



ORDERING INFORMATION

MODEL	DESCRIPTION
GDS-WC3H8	Propane gas detector, wall mount
GDS-WCH4	Methane gas detector, wall mount
GDS-WCO	Carbon Monoxide gas detector, wall mount
GDS-WH2	Hydrogen gas detector, wall mount
GDS-WH2S	Hydrogen Sulfide gas detector, wall mount
GDS-WNO2	Nitrogen Dioxide gas detector, wall mount
GDS-WO2	Oxygen gas detector, wall mount
GDS-DC3H8	Propane gas detector, duct mount
GDS-DCH4	Methane gas detector, duct mount
GDS-DCO	Carbon Monoxide gas detector, duct mount
GDS-DH2	Hydrogen gas detector, duct mount
GDS-DH2S	Hydrogen Sulfide gas detector, duct mount
GDS-DNO2	Nitrogen Dioxide gas detector, duct mount
GDS-DO2	Oxygen gas detector, duct mount

RELATED PRODUCTS

E3SCO	Replacement CO sensor cartridge
E3H2	Replacement H2 (Hydrogen) sensor cartridge
E3H2S	Replacement H2S (Hydrogen Sulfide) sensor cartridge
E3M	Replacement CH4 (Methane) sensor cartridge
E3NO2	Replacement NO2 (Nitrogen Dioxide) sensor cartridge
E3O2	Replacement O2 (Oxygen) sensor cartridge
E3P	Replacement C3H8 (Propane) sensor cartridge
Calibration Gases	CO, CO2, NO2, O2, CH4, NH3, N2, H2S, H2, and Refrigerants (See calibration page)
1309K0002	GDS, GDD, GDN calibration kit for 58 to 103L gas cylinders
1309K0004	GDS, GDD, GDN calibration kit for 17 to 34L gas cylinders