

GAS & SPECIALTY SENSORS

TOXIC AND COMBUSTIBLE GAS DETECTOR GDS SERIES



DESCRIPTION

The **Kele 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.



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
- Programmable relay differential

7

GAS & SPECIALTY SENSORS

SPECIFICATIONS	
Supply Voltage	17-27 VAC @ 8.4 VA, 50/60 Hz or 24-38 VDC @ 350 mA (E3SAH base unit is 120 VAC only)
Accuracy	±3%
Signal Output	4-20 mA @ 500Ω
Measurement Range	
CO	0-250 ppm
O2	0% to 25%
H2S	0-50 ppm
N2O	0-10 ppm
CH4,C3H8, H2	0% to 100% LEL
Sensing Technology	
CO, O2, H2S, NO2	Electrochemical
CH4, C3H8, H2	Catalytic combustion
Calibration Interval	6 months
Life Expectancy	
CO	6 years
All Others	2 years
Visual Indication	Green LED: power Amber LED 1: Alarm/fault Amber LED 2: Alarm/fault
Response Time	50 seconds or less
Display	8 character, two-line LCD
Display Resolution	
CO	1 ppm
O2	0.2%
H2S, NO2	0.2 ppm
CH4, C3H8, H2	0.5%
Relay Output	(2) DPDT pilot duty, 150 VA max inductive, 5A @ 30 VDC, 250 VAC
Alarm Auditory Levels [Db]	85 dBA @ 10 ft (3m)
Operating Temperature	
CO	-4° to 122°F (-20° to 50°C)
All Others	-40° to 122°F (-40° to 50°C)
Operating Humidity	15 to 90% non-condensing
Dimensions	8.1"H x 5.9"W x 2.7"D (20.6 x 14.9 x 6.7 cm)
Weight	
Wall	1.84 lb (0.83 Kg)
Duct	7.96 lb (3.61 Kg)
Approvals	ETL
Warranty	1 year



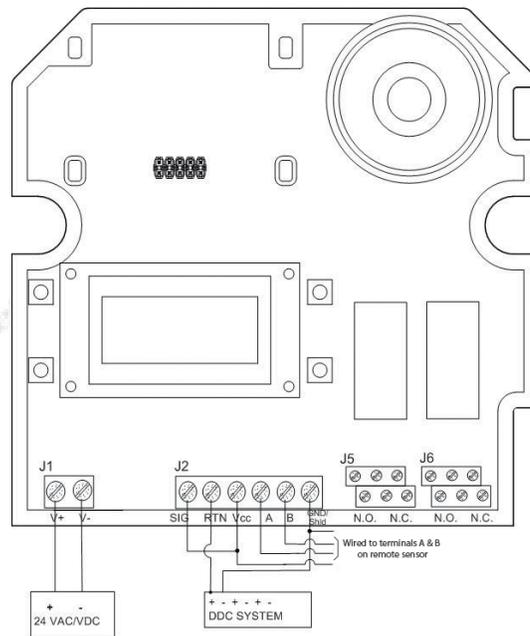
GAS & SPECIALTY SENSORS

TOXIC AND COMBUSTIBLE GAS DETECTOR

GDS SERIES

WIRING

Note: No useable analog output on remote sensor. Only base unit has analog output of base unit. Relay output is tripped by whichever set point is tripped first.



7

GAS & SPECIALTY SENSORS

ORDERING INFORMATION

MODEL

GDS-WC3H8
GDS-WCH4
GDS-WCO-1
GDS-WH2
GDS-WH2S
GDS-WNO2
GDS-WO2
GDS-DC3H8
GDS-DCH4
GDS-DCO-1
GDS-DH2
GDS-DH2S
GDS-DNO2
GDS-DO2

DESCRIPTION

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

RELATED PRODUCTS

E3SCO
E3H2
E3H2S
E3M
E3NO2
E3O2
E3P
ECLAB
E3SAH
Calibration Gases

Replacement CO sensor cartridge
Replacement H2 (Hydrogen) sensor cartridge
Replacement H2S (Hydrogen Sulfide) sensor cartridge
Replacement CH4 (Methane) sensor cartridge
Replacement NO2 (Nitrogen Dioxide) sensor cartridge
Replacement O2 (Oxygen) sensor cartridge
Replacement C3H8 (Propane) sensor cartridge
Splash Guard for NEMA 4X
Single Base Unit Wall mount, 120 VAC
CO, CO2, NO2, O2, CH4, NH3, N2, H2S, H2, and Refrigerants (See calibration page)

ACCESSORIES

691-K0A
DCP-1.5-W
DCPA-1.2
UCK-1

UCK-2
WBX334

Control transformer, 120:24 VAC, 40 VA, Class 2
Power supply, 24 VAC IN to 24 VDC OUT
Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
Universal calibration kit for non-corrosive gases (N2, CO2, CH4, H2, O2, CO, and refrigerants)
Universal calibration kit for corrosive gases (NO2, H2S, SO2, and NH3)
One gang weatherproof outlet box with (3) 3/4" hubs