The GD10L provides an effective response to the detection of gas hazards in a wide range of industrial environments from boiler plant rooms to offshore petrochemical installations.

**Description**
The GD10L safeguards life, environment and property through reliable gas detection over path lengths from 2 (6.5 feet) to 30m (100 feet).

The IR sources are more resistant to vibration/shock than competing technologies, hence replacement of the IR sources is not necessary during its long service life.

The unit combines a transmitter / receiver into a single housing and utilises a novel retro-reflector. The whole system can be commissionable by a single person.

The retro-reflector is heated to minimise condensation and icing.

5 years warranty, 15 years on IR sources

**Application**
- Offshore Drilling and Production Platforms
- FPSO’s
- Refineries
- Fuel Loading Facilities
- Compressor Stations
- Chemical Plants

**Features**
- Enhanced coverage
- Solid State IR Sources
- Dual IR sources / detectors
- Precision designed retro-reflector
- Heated retro-reflector
- Handheld configuration tool
- Reduced cabling

**Benefits**
- Fewer devices needed to cover installation
- Ultra-stability and long life
- Well proven auto compensated design
- Less prone to misalignment
- Minimises icing and condensation
- Simple one-man set up & commissioning
- Cable to one end only for indoor applications

SIMTRONICS
Fire & Gas
Technical Data

GENERAL
Detection method: IR-absorption, dual wavelength, dual path
IR-Source: Solid state IR source, 50Hz flash
Self-test: Continuous
Calibration: Factory set, no field recalibration

PERFORMANCE
Detection range: 5 LEL m Methane Option: Other ranges
Path Length: 2-20m or 2-30m
7 - 65 feet or 7 - 100 feet
Long-term stability: Better than 0.2 LEL m
Repeatability: Better than 0.1 LEL m
Response time: T50 = 2.5 sec T90 = 5 sec.

OUTPUT SIGNAL
Standard: Current source 4 - 20 mA, max. load impedance 500 Ohms
Option: Current sink 4 - 20 mA
Detector warnings:
Clean optics: 1 mA
Sensor failure: 0 mA

ELECTRICAL
Detector power supply: 18.32 V DC
Power consumption: Approx. 5 W
Electrical connection: 3 wires [M20 EEexe cable gland]
Retro-reflector power supply:
Power supply: 230V AC Option: 110 V AC
Power consumption: 60 W [Max] 20m [65 feet] range
120W [Max] 30m [100 feet] range

ENVIRONMENTAL
Operating: -0°C to +45°C (-4°F to +113°F)
Option: -30°C to -60°C (-22°F to -140°F)
Humidity (operation): 99% RH non-condensing

CERTIFICATION
ATEX certified: ATEX 2 II G EExde IIIC T6

RFI/EMI PROTECTION
Complies with ENS0081-1, ENS0081-2, ENS50082-1 and ENS50082-2.

MECHANICAL
Protection category: IP66/IP67 DIN 40050 [NEMA 4X]
Housing material: Stainless steel SUS343 [ASTM 316]

WEIGHT
Transceiver: -3.5 Kg (7.7 lbs)
Retro-reflector: -8.5 Kg (18.7 lbs), 20m range
-14Kg [30.8 lbs], 30m range
Mounting bracket: -5.5 Kg (12.1 lbs)