



The DGS is a fully-supervised wireless gas detector, designed to detect the presence of Liquefied Petroleum Gas (LPG), and wirelessly alerts the control panel. LPG includes propane gas (C<sub>3</sub>H<sub>8</sub>), and is mainly used as fuel in heating appliances, cooking equipment, and vehicles.

The detector monitors the presence of the above gases once every 10 seconds and performs a self-test every 160 seconds. Once the concentration of the gas reaches the detection threshold, it triggers an alarm, by sounding beeps every one second, along with flashing with the red LED.

The DGS is powered by a 220VAC transformer. The detector's battery is only used for monitoring and alerting on AC power loss.

The DGS alerts on low battery condition, and has a tamper switch that activates when its enclosure is opened or removed from the mounting surface. The detector transmits a test event every 15 min. Its LED indicates on alarm event, tamper opening, and low battery.

PIMA Electronic Systems' portfolio includes a wide selection of hardwired and wireless detectors, sensors and sirens for both security and safety purposes. Our products are developed with uncompromising quality, ease of installation, and operation experience.

PIMA's wireless detectors integrate the FastLink technology, an advanced wireless detection technology using true, 128-bit AES encryption that ensures maximum wireless security.

PIMA's detectors are a perfect solution for the business as well as for the home markets.

The **FORCE** and **FORCE Lite** alarm systems interface with a wide selection of expanders and peripherals, enabling the customer to expand the system as needed.

## Features

- Powered by 220VAC transformer
- Enclosure's tamper switch
- Low battery reporting
- Supervision reporting
- Designed for indoor installations

## Technical specifications

- Transmission:
  - Frequency (MHz):
    - DGS143: 433.92
    - DGS187: 868.95
  - Output: 10mW
  - Bandwidth: 100KHz
  - Modulation: FM
- One-way
- Sensitivity: meets UL1484 and EN50194 before 25% of the LEL

- Range: 500m in open space<sup>1</sup>
- Alarm audibility: 85dB @ 3m
- Power:
  - Main: 100~240 VAC to 5VDC USB adapter
  - Backup battery: 3V CR123A, Lithium
  - Standby Current: 17mA
- Supervision: reporting at 15-minute intervals
- Tamper event: tamper status is reported as part of every supervision report
- Battery supervision: battery status is reported as part of every supervision report
- Dimensions: 11.9 x 8 x 4.4 cm
- Weight (excluding battery): 200g
- CE compliance
- Operating temperature: -10 to +50 °C
- Humidity (max.): 93% R.H., non-condensing

## Ordering Information

- DGS143: 8832004
- DGS187: 8832009



All rights reserved © 2019 Pima Electronic Systems Ltd.

For product information  
[www.pima-alarms.com](http://www.pima-alarms.com)

Manufactured by:  
PIMA Electronic Systems Ltd.  
5 Hatzoref Street, Holon 5885633, ISRAEL  
Tel: +972.3.6506444  
Fax: +972.3.5500442  
Email: [support@pima-alarms.com](mailto:support@pima-alarms.com)

Doc no. SPC-8832004, Revision: 10-2019

<sup>1</sup> Walls or metal may reduce actual operating range