



# DGD-600

# DGD-600-AC

# DGD-620

# DGD-620-AC

Gas detectors

## Description

The new 600 series of addressable detectors has been developed for an effective detection of any accidental gas leak of the everyday flammable gases (methane, butane and propane) according to the model.

The 600 range of addressable detectors includes 2 detectors powered at 24V (DGD-600 and DGD-620) and 2 detectors powered at 220V (DGD-600-AC and DGD-620-AC).

The 600 range of addressable detectors is composed of 4 models: two for the detection of gases lighter than air: natural gas (DGD-600 and DGD-600-AC) and two for the detection of liquefied petroleum gas (LPG): butane and propane (DGD-620 and DGD-620-AC).

The detection process for this range is based in the innovate technology of the FIGARO semiconductor sensors and the advanced detection and discrimination algorithms that give a high reliability and accuracy to the 600 series. The alarm levels are 5000 ppm for the natural gas detectors and 2000 ppm for the LPG detectors.

The detectors of the 600 range include a fault relay and an alarm relay, 3 LEDs to be able to quickly visualize their status: service, fault and alarm; and a button to perform a test and verify its correct operation.

This range of detectors allows its integration into the addressable Detnov system, as well as working autonomously.

## Features

- Autonomous operation or via addressable Detnov system
- Figaro sensor
- Modern design
- Easy installation surface or DIN rail
- Detection of: natural gas, methane, butane and propane (depending on model)
- Alarm relay and fault relay
- 3 status LEDs
- Test button

## Applications

Nowadays both the natural gas and the LPG represent one of our main energy sources and any gas leak can have devastating consequences. Therefore the 600 range of addressable detectors are suitable for a huge number of applications. Its elegant design makes the Detnov's 600 range an ideal solution for facilities in which the balance between functionality and aesthetics is necessary.

## Technical features

| Detector   | DGD-600 & DGD-620            | DGD-600-AC & DGD-620-AC |
|--|------------------------------|-------------------------|
| Operating voltage:                                     | from 22 to 38VDC             | from 90 to 264VAC 3W    |
| Quiescent current consumption:                         | 45 mA                        | <35 mA                  |
| Alarm current consumption:                             | 65 mA                        | <62 mA                  |
| Relay contacts:  | 1A @ 30VDC                   |                         |
| <b>Connections</b>                                     |                              |                         |
| 2 x 1,5 mm <sup>2</sup> twisted and shielded cable (1) |                              |                         |
| <b>Environment</b>                                     |                              |                         |
| Operating temperature:                                 | Drom -10°C to +40°C          |                         |
| Relative humidity:                                     | 95% without condensation     |                         |
| IP index:  | IP32D                        |                         |
| <b>Physical features</b>                               |                              |                         |
| Size   | 89,60 mm x 146,50 mm x 39 mm |                         |
| Material:  | ABS                          |                         |
| <b>Approvals</b>                                       |                              |                         |
| EN 50194-1   |                              |                         |

(1) Use the "System Calculation" tool to check the maximum number of devices and loop length, in accordance with the cross-section of the cable used.

## Dimensions

