

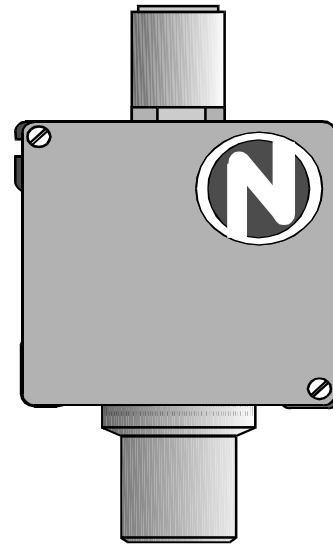
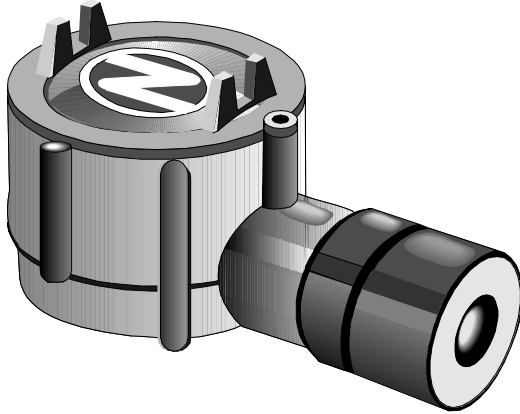


# NOTIFIER

a Pittway Company

## Gas detectors Series

### VG/VGp



### DESCRIPTION

VG/VGp Series detectors are used to detect the presence of combustible substances (the concentration of which is expressed as a % of L.E.L.) or toxic substances (the concentration of which is expressed in parts per million, PPM.) in atmospheres where principal constituent is air.

VG Series, double threshold, and VGp Series, with a 4÷20 mA output, are available in two versions:

- VG/VGp DUST - dust-proof
- VG/VGp ADPE - explosion-proof

### MAIN FEATURES

- Type of gas detected: refer to detected gas list on our price list
- 4÷20 mA (VGp Model): linear response proportional to the gas concentration and compatible with G100 Series NOTIFIER control panels and IIG1 / IIG4 analog modules
- Double threshold (VG Model), 10 mA Pre-alarm/ 20mA Alarm: compatible with MINIGAS control panels.

### VISUAL INDICATION

- YELLOW LED  
trouble signal at the trouble output
- RED LED  
5% default first threshold alarm signal (disabled for VG version)
- RED LED  
10% default second threshold alarm signal (VG Model only)
- RED LED  
20% default third threshold alarm signal (VG Model only).

## TECHNICAL FEATURES

- **Power supply:** 12÷24 10% VDC
- **Consumption @ 12 VDC:** 120 mA
- **Consumption @ 24 VDC:** 90 mA
- **Range value:** 0 - 100% L.E.L.
- **Control unit:** 8 bit microprocessor
- **Three alarm levels:** (max) 40 mA o.c. output (VG Model only)
- **VGp Model:** 4÷20 mA proportional output
- **VG Model:** double threshold 10 mA Pre-alarm / 20 mA Alarm
- **Output logic:** Positive Security (VG Model)
- **Self-diagnosis Procedure:** o.c. trouble output (max 40 mA)
- **Self-zero Procedure:** zero setting trimmer on board
- **Catalytic sensors:** NEMOTO, CITY TECHNOLOGY, EEV for infiammable Gas
- **Electrochemical cells:** CITY TECHNOLOGY LTD or others for CO, O<sub>2</sub>, NH<sub>3</sub> etc.
- **Digital filter:** moving average on acquired values
- **Resolution:** 256 steps (4÷20mA)
- **Response time:** less than 10 sec. 90% range without digital filters
- **Repetition capability:** 5% of range
- **Operating temperature:** -10÷+40 °C
- **Relative humidity:** max. 75 % without condensation
- **Vibrations:** up to 0.3 mm. (@ 10÷50 Hz)
- **Weight**
  - AD (ADPE) Model: 650 gr.
  - D (DUST) Model: 350 gr.
- **Dimension**
  - AD 105 Model: H. 200, P. 110 mm
  - DUST Model: L. 106, H. 180. P. 62 mm

## INTERNAL CONTROLS

- Manual regulation of ZERO
- Manual regulation of SPAN
- Regulation of CURRENT GENERATOR

## OUTPUT

VG Series Models have 4 open collector outputs, in positive security, normally negative, combined to the alarm thresholds and to the trouble condition. The negative is disconnected if the sensor is in alarm condition.

These outputs can be used to connect a remote LED repeater or to activate a local control (max. current 40 mA).

- **Trouble output:** 40 mA max, o.c.
- **First threshold alarm output:** 40 mA max, o.c. default 5% (disabled for VG version)
- **Second threshold alarm output:** 40 mA max, o.c. default 10% (VG Model only)
- **Third threshold alarm output:** 40 mA max, o.c. default 20% (VG Model).

VGp Series Models have a proportional output (4÷20 mA 3 wires connection) reporting the gas concentration measured.

**NOTIFIERITALIAS.r.l. - Headquarters:** 20097 SanDonatoMilanese(MI) - Via Grandi, 22 - Phone: 02/51897.1 (ISDN) - Fax: 02/5189730  
**Branch Offices:** 10148 Turin - Via Druento, 42/D - Phone/Fax: 011/2207742 (ISDN) - 35128 Padua - Via Turazza, 30 - Phone: 049/8073304 (ISDN) - Fax: 049/8073329 - 40050 Funodi Argelato (Bologna) - Asta Servizi, Blocco 4B, Gall. Bn. 30, Centergross - Phone/Fax: 051/864855 - 00040 Rome (Morena) - Via Del Casale Santarelli, 51 - Phone: 06/79847107 (ISDN) - Fax: 06/79811549 - 80143 Naples - Centro Direzionale, Isola G1, Scala C, Piano 21° - Phone: 081/7879398 - Fax: 081/7879159 - 71100 Foggia - Piazza Padre Pio, 30/F - Phone/Fax: 0881/638512 - 95128 Catania - Via Francesco Riso, 78 - Phone: 095/448533 - Fax: 095/434503

[www.notifier.it](http://www.notifier.it)

All specifications are subject to change without notice. All rights reserved.



D-882.1-VG/VGp-ENG=Rev. A.1=11/1999