



Gas Sensor Relays board

Dry contacts

Single PWR supply

Easy use

3 Alarm

Custom

Accessory compact relays board designed for gas detection precalibrated module (FIS3000).

PRODUCT SUMMARY

The GVZ Gas leakage relays board is a flexible and easy solution used to control and commute the Open collector signal (from FIS3000 gas sensors) in a dry contact solving the most common requests of the markets.

It is also the perfect solution to have a gas leakage system where the dimension and price of the final device not allow the installation of a complex system .

- Multiple Alarms
- Easy interface with dry contacts
- Single alimentation supply for Board and Gas sensor
- Interfaced to FIS3000 gas module for multiple gases
- Highly customizable and flexible

The **multiple Relay Board** is an easy interface solution, to use in combination with Nissha-FIS Gas sensor module (FIS3000 series), that commutate the signal from Open Collector (Gas Module) to Dry contact.

It's goals are to give back alarm outputs available for mostly HVAC central unit and also to be a simple complete solution in those small systems where the "classical" gas detection systems on market are too excessive.

Moreover the FIS3000 gas sensor module is precalibrated, cheap and robust component with Alarm, Prealarm and Malfunction output which doesn't requere calibration ,

Thanks to the **easy interface, low mantenance and low price** it is a **highly useful** tool to own a Gas Leakage device.

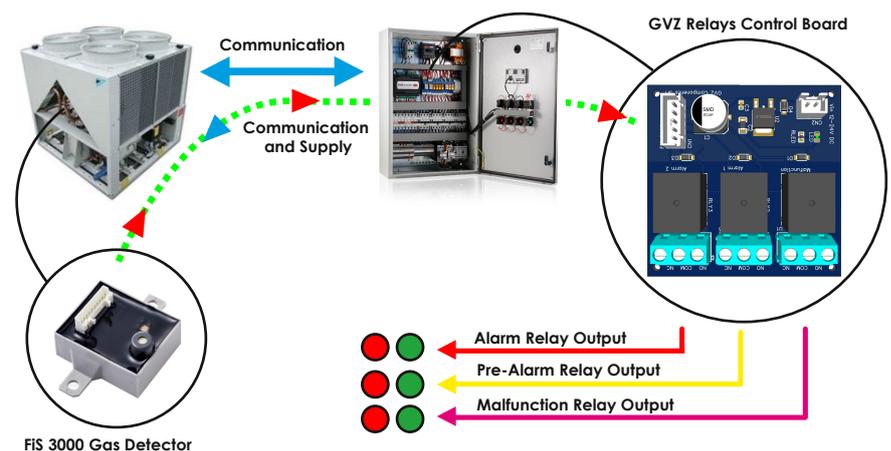
APPLICATIONS

- Air Treatment Unit
- HVAC accessory
- Industrial
- Residential
- OEM

Features Benefits

- **Easy management signal** with 3 Relays output
- Developed for **Precalibrated gas modules** communication (FIS3000 series)
- Pre-Alarm, Alarm and Manfunction **discrete outputs**
- One **single power supply** to Relays board (for both Board and Gas Module)

Application Example



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PART NUMBER DEFINITION

GSR-3-N-0

Board

3 Relay Board

Optional

N No case

V Coated

Extra info

0 Prototype (for evaluation)

1 In production

Specification

Gas Sensor Relays Board in complete configuration

Supply voltage 12 -24Vdc

Output Relay 10A 125Vac / 10A 12Vdc

Power Consumption 300mA (3 Relays configuration with FIS3000)

Protecting Coating Available

FIS3000 Gas sensor Module (Nissha-FIS)

Supply voltage 5.0 Vdc +/- 5%

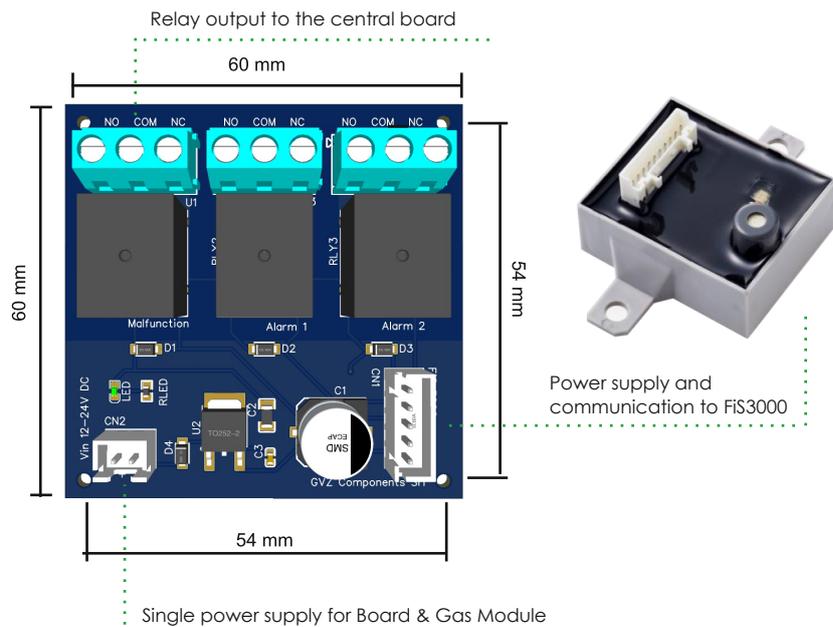
Sensor technology Precalibrated Semiconductor

Output Open Collector

Power Consumption 35mA

Operating temp. -10 to 50°C

Mechanical Diagram



FIS 3000 gas Module Target Gases

Gas detected	FIS3000 codification	Alarm Specification
Ammonia	FIS3091-99C4-01/03	100ppm pre-alarm/ 300ppm Alarm
CO	FIS3051-99C4-01/03	100ppm pre-alarm/ 300ppm Alarm
CO & Methane	FIS3001-99C4-03/50	300ppm CO and 5000ppm Methane
CO & Propane	FIS3021-99C4-03/20	300ppm CO and 2000ppm Propane
Hydrogen	FIS3042-99C4-30/60	3000ppm pre-alarm/6000ppm Alarm
Methane	FIS3031-99C4-30/50	3000ppm pre-alarm/5000ppm Alarm
Propane (R290)	FIS3061-99C4-10/20	1000ppm pre-alarm/ 2000ppm Alarm
R22	FIS3083-99C4-10/20	1000ppm pre-alarm/ 2000ppm Alarm
R32	FIS3084-99C4-10/50	1000ppm pre-alarm/ 5000ppm Alarm
R410A	FIS3082-99C4-10/50	1000ppm pre-alarm/ 5000ppm Alarm

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