



DOMESTIC GAS LEAKS DETECTOR WITH INTERCHANGEABLE SENSOR serie **Beta** mod. **752/M** - serie **Beta** mod. **752/G**



Item	Power supply	Detected gas
752/M	230Vac-50Hz	METANO
752/G	230Vac-50Hz	G.P.L.

Interchangeable sensor

Code	Detected gas	Item
3.752.1632	METANO	752/M
3.752.1633	G.P.L.	752/G

GENERAL DESCRIPTION

The detectors *Beta* 752M and *Beta*752G are gas detector of methane and LPG gas, that warns with an optical and acoustic signal, the presence of gas in the environment.

They are planed to be functioning as detected gas with relay exit.

The detectors are calibrated to detect gas up to 10% of the L.E.L. (Low Explosion Limit), this threshold can change in base of the environmental conditions but it will not gets over during the first 5 years working, the 15% LEL. After such a period or in case of lighting of the LED "FAULT", the *Interchangeable sensor* has to be replaced.

With that aim, the package is provided with a label on which have to be indicated the maturity of correct working period (4 years from installing date); this label have to be compiled by who makes the installation.

LUMINOUS AND ACOUSTIC SIGNALISATIONS

The gas detector is provided, on the front panel, by three luminous signalisations:



-GREEN LED (\mathbf{ON}) : indicates that the instruments is powered



-YELLOW LED ($\mbox{{\it FAULT}}) + \mbox{{\it BUZZER}} :$ Indicates that the gas sensor is damaged.

-YELLOW LED only lamping: Indicates that the gas sensor is to substitute.



-RED LED (ALARM): Indicates that the gas concentration measured in the air exceeds the alarm threshold.

In case of damage, the gas detector is able to signals the malfunction, illuminating in fixed way the yellow led and activating a sound alarm with two seconds' of intermittence.

In case of alarm the detector illuminating the red led and after 20 seconds the buzzer emits a sound alarm and the relay activates.

LIGHTING DELAYS

The catalytic sensor presents in the *Beta* gas detector, needs to be heated for about one minute to working in a correct way and for that reason when the detector is lighted on the green led will lighten to indicated that the sensor is in the heating phase. During this time, all the detection functions will be inhibited.

INSTALLATION

Attention: the installation and the out of service of the instrument must be done by skilled personnel only.

The installation of gas and the possible stopping device must be in according to the national and in force prescriptions law.

DETECTOR POSITIONING

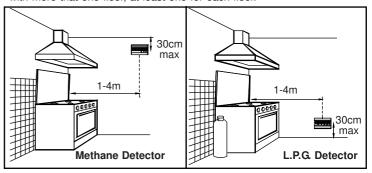
The instrument have to be installed:

-the **Beta 752/M** gas detector for methane should be fixed at a maximum distance of 30 cm from the ceiling:

-the *Beta 752/G* gas detector for LPG should be fixed at a maximum distance of 30 cm from the floor.

They should be fixed at a distance comprises from 1 meter and 4 meters by the gas device (kitchen, boiler room, etc...)

Possibly in every room in which there is a gas device and, in the residences with more that one floor, at least one for each floor.



Avoid installing:

Directly over the sink or the gas device

In little locals where can be utilised alcohol, ammonia, spray bottles of gas or other substances with flying solvents.

In low ventilated environments

Near to walls or obstacles that can stop the gas flow from the user to the detector, or near to exhausters or fans that can divert the air flow In environment in which the temperature can arrive over $40\,^{\circ}\text{C}$ or under $-\,10\,^{\circ}\text{C}$

In environment with a lot of humidity or vapours

INSTALLATION PROCEDURES

By using an screwdriver unscrew on the right hand side the instrument and uncover it. (Fig.1) $\,$

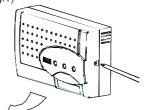


Fig.1

The box cover has to be positioned on the three form point or on the wall, by using the screws and plugs available.

ELECTRICAL CONNECTION POWER SUPPLY

Attention: the electrical connection has to be done with an under track cable.

Beta gas detector have to be powered at 230Vac by the terminals 1 and 2 (Fig. 2) It has to be provided with an device, to be disowned from the detector and the feeding net, as written in the European Standard EN 60335-1.

230 Vac

Fig.2

GENERAL GUARANTEE CONDITIONS THIS CERTIFICATE IS THE ONLY DOCUMENT THAT GIVES THE RIGHT

FOR THE REPAIR OF THE PRODUCT UNDER GUARANTEE.

- The product is GUARANTEED for a period of 24 months from the purchase date.
- Damage caused by tampering, incorrect or improper use and installation is not covered by the GUARANTEE.
- The GUARANTEE is valid only if it is duly compiled.
- In the event of defects covered by the GUARANTEE, the manufacturer will repair or substitute the product free of charge.

SERVICING AFTER THE GUARANTEE PERIOD

Any repairs after the period of the GUARANTEE will be charged on the basis of the parts substituted and the labour costs.

CHARACTERISTICS OF THE EXIT-SIGNAL

The detector is provided with an external relay with free tension contacts, capacity of connection 8A 250Vac / 30Vdc.

ELECTRO-VALVES CONNECTION

The gas detector has inside a jumper that permits to select the type of electro-valve to connect that can be Normally Opened type (Fig. 3) or Normally Closed type (Fig. 4)

We remind that the valve should be installed on the gas pipes outside the room under control, since protection is useless if a gas leak occurs at the beginning of the gas pipe.

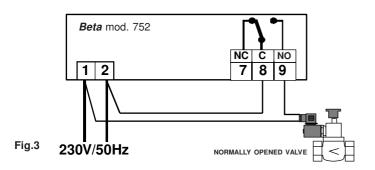


Positioning N.O.: proper for normally opened valves

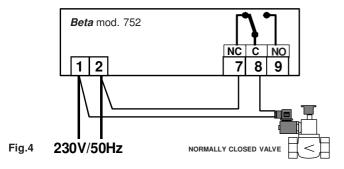


Positioning N.C.: proper for normally closed valves or for the contemporaneously check of both electro-valve and an external electrical charge.

OPERATIONAL WITH NORMALLY OPENED VALVE (N.O.)



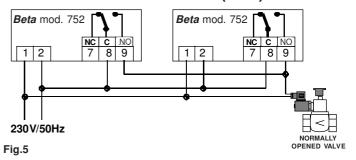
OPERATIONAL WITH NORMALLY CLOSED VALVE (N.C.)



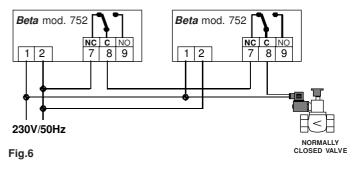
ELECTRICAL CONNECTION WITH MORE DETECTORS:

The following schemes shows the connection between two detectors with only one electro-valve (Fig.5-6). It is also possible to connect more than two detectors, by repeating the connections here written.

OPERATIONAL WITH NORMALLY OPENED VALVE (N.O.)



OPERATIONAL WITH NORMALLY CLOSED VALVE (N.C.)



OPERATIONAL CHECK

The cover set below the three signaling LEDs (Fig. 7) has to be open by the means of a flat screwdriver, before the functional test.



Fig.7

After the installation it is possible to check the correct operational of the instrument by pushing for at least 2 seconds the TEST button on the *Interchangeable sensor* (Fig. 8), in this way all the leds will be alight, the acoustic alarm and the relay will be on for 5 seconds.

WARRANTY CERTIFICATE TO COMPILE AND SEND IN CASE OF DAMAGE			
DEVICE:	☐ Beta 752M	☐ <i>Beta</i> 752G	
Serial numb	per(s.n.)		
DEALER			
Stamp:		Date of purchase:	
USER		/	
Surname ar	nd name		
Address		n°	
City			
Telephone_			
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At this point it will be necessary to rearm the electro valve connected.

PERIODICAL TESTING

We recommend to contact the installer at least once a year for a general verification

IMPORTANT: Do not use pure gas, such as a lighter, directly on the sensor since the sensor could be irremediably damaged.

SENSOR REPLACEMENT

N.B. Sensor replacement has to be carry out by authorized and trained technicians.

Replace the sensor, when "FAULT" LED is lighting or after 5 years of its working.

N.B. Make sure that the code of the new interchangeable sensor corresponds to the sensor code to replace.



1_Switch off the detector and to remove the cover set below the three LEDS, lever into the slot provided with the help of a screwdriver. (Fig.9).

2_Unscrew the two fixing screws of the *interchangeable sensor* to be replaced. (Fig.10).

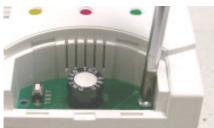
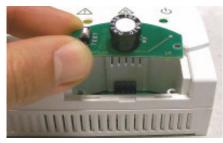


Fig.10



3_Take out the *Interchangeable sensor* to be replaced (Fig.11).

Fia 11

4_Check that the new Interchangeable sensor is compatible with the one to be replaced (in case of wrong sensors, the YELLOW LED lights and the BUZZER rings.) Insert the 4 connectors into the appropriate sit. (fig. 12).





5_Fix the interchangeable sensor through the two screws and close the cover Fig.13, inserting first the two inferior pivots. Then, restore the tension of the power supply.

The catalytic sensor presents in the gas detector, needs to be heated for about one minute to working in a correct way and for that reason when the detector is lighted on the green led will lighten to indicated that the sensor is in the heating phase. During this time, all the detection functions will be inhibited.

WARNING

For the cleaning, use an cloth on the top.

Not be opened, it could cause damage.

Note that the sensor employed has a good resistance towards products such as sprays, detergents, alcohol, glues and paints.

However, these products could contain substances which, if in great quantity, could interfere with the sensor and cause false alarms.

We recommend to ventilate the room should products like these be used. Note that the detector is not able to detect gas leaks occurring outside the room where it is installed, neither inside walls nor under the floor.

To make gas (methane and LPG) nose identifiable, gas is added with a particularly disturbing smelling substance.

Small gas quantities coming out from left open cookers for some minutes do not cause the gas detector alarm signalling even if it is clearly nose perceptible; in fact the quantity of gas presents in the environment can be under the alarm threshold.

Please remember that the gas detector cannot work without power supply.

WARNING!! In case of alarm:

- 1) Extinguish all naked flames
- 2) Turn off the gas supply at the gas emergency control and/or, with a LPG supply, the storage tank
- 3) Do not switch on or off any electrical lights. Do not activate any electrically powered devices
- 4) Open both doors and windows to increase room ventilation

If the alarm stops, it is necessary to identify the alarm reason and act accordingly

If the alarm condition continues and the cause of the leak is not apparent and/or cannot be corrected, vacate the premises and immediately notify the gas emergency service.

TECHNICAL CHARACTERISTICS

Power supply
 Power dissipation
 Operation temperature
 Contacts rating
 Humidity
 20mA max
 10°C.... +40°C
 8A 250Vac/30Vdc
 90%

- Alarm intervention calibrated to detect gas up to

10% of the L.E.L.(Low Explosion Limit).

- Time delay at switching on about 1 minute
- Alarm and relay time delay about 20 seconds
- Acoustic signalisation 85 dB (A) in 1 meter
- Electrical self-diagnosis signal for eventual abnormalities

- Rated to IP42

TO BE FILLED BY THE INSTALLER:		
Date of installation		
Date of replacement		
Site of installation		
Serial number (s.n.) (Written on the inside of the plastic container)		
Stamp		
Signed		



