

In case of alarm :

- 1) Extinguish all flames.
- 2) Turn off the tap of the gas-meter or of the LPG bottle.
- 3) Do not switch on or off lights.
 - do not start equipments electrically powered.
 - do not start devices electrically powered.
- 4) Open doors and windows to air the room.

If the alarm stops you should find the cause and remove it.

If the alarm does not stop and the cause of the gas loss cannot be found or removed, leave the house or the boilerhouse plant and warn the emergency service (firemen).

Warning

Equipment powered at 230V: only skilled people can open the container.

It is forbidden to change the sensor sensitivity adjustment: mishandlings will not be considered under guarantee.

Alltronic snc



Via Torino, 84
12041 Bene Vagienna (Cn) - Italy
Tel. 0172-654445 - Fax. 0172-654105



di Allodi F., Mana L. & C. Via Torino n. 84
12041 Bene Vagienna (Cn) - Italia -Tel. 0172-654445

INSTRUCTION BOOKLET

WARNINGS

“The text of this booklet has been drawn up by using the GUIDE TO THE DRAWING UP OF WARNINGS DESTINED TO ACCOMPANY ELECTRICAL AND NON ELECTRICAL EQUIPMENT”

This booklet is an integral and essential part of the product and should be handed over to the user.

Read the warnings contained in this booklet carefully as they give important indications regarding the safety of the installation, use and maintenance.

- Please preserve this booklet for any further consultation that may be necessary. Children should not be allowed in reach of the packaging elements (plastic bags, expanded polystyrene, nails, etc.) as they are potential sources of danger.

- **The installation must be carried out by qualified personnel, in accordance with current regulations, according to the maker's instructions.**

- **Before plugging in the equipment, make sure that the data on the plaque correspond to those of the electricity distribution network.**

The installation regulations can vary from country to country (*).

Incorrect installation can cause harm to people, animals of things, for which the maker cannot be held responsible.

The electrical safety of this equipment is achieved only if correctly connected to an effective earthed system carried out as foreseen by the current safety regulations. It is necessary to verify this fundamental safety requirement and, in the case of doubt, ask for an accurate checking of the system by professionally-qualified personnel. The maker cannot be held responsible for eventual damage caused by not earthing the system.

Check that the electrical capacity of the system is adequate for the maximum power of the equipment indicated on the plaque.

If in doubt, please ask a professionally-qualified person.

This person should, in particular, also ascertain that the section of the system cables is suitable for the power absorbed by the equipment.

It is forbidden to use adaptors, multiple plugs and/or extension wires.

- **This equipment should be destined only to the use for which it has been expressly conceived, i.e. to detect domestic gas (natural and butane/propane). Any other use should be considered improper and therefore dangerous.**

The maker cannot be held responsible for eventual damage caused by improper, incorrect and unreasonable use.

- The use of any electrical equipment involves the observance of some fundamental rules.

In particular:

- **do not touch the equipment with damp or humid hands or feet.**

DECLARATION OF CONFORMITY

(according to ISO/IEC Guide 22 and EN 45014)

- do not use the equipment when you have bare feet.
- do not use extension wires in rooms used as bathrooms or showers.
- do not pull the electricity supply wire in order to disconnect the equipment from the supply network.
- **do not leave the equipment exposed to atmospherical agents** (rain, sun, etc.), unless expressly foreseen.
- **do not allow the equipment to be used by small children or incapable persons.**
- **Before carrying out any cleaning of maintenance operations, unplug the equipment from the electrical supply network** by turning off the system's switch.
- **In the case of a breakdown and/or poor functioning of the equipment, switch it off, without making any attempt to repair it or intervene directly.**
- Apply exclusively to professionally-qualified personnel.**

The eventual repairs to the products should only be carried out by the maker or by an authorized assistance centre, exclusively using original spare parts.

A lack of observance of that mentioned above could compromise the safety of the equipment.

- An omnipower switch should be provided for the installation as foreseen by current safety regulations (**), with a contact opening distance of 3 mm or more.
- In order to avoid dangerous overheating, the unwinding of the entire length of supply cable is recommended.
- Do not block the suction or dissipation grids.
- The user should not replace the supply cable of this equipment.

Should the cable be damaged, turn off the equipment and, for the replacement of the cable, apply exclusively to professionally-qualified personnel.

- Should you decide not to use a piece of equipment of this kind any longer, it is advisable to render it inoperative by disconnecting the supply terminals from the electrical side, after having removed the cable from the supply network.

We also advise you to render harmless those parts susceptible of causing a potential source of danger.

- Discharge: transformer and relays should be consigned to firms which recycle copper. All the rest should be discharged as special refuse non polluting.

(*) In Italy follow the UNI CEI 70028

(**) In Italy follow the 46/90 law

PARTICULAR POINTS TO NOTE

- To guarantee the efficiency of the plant and its correct functioning, it is indispensable to observe the maker's indications and to have the periodical maintenance of the plant carried out by professionally-qualified personnel.

In particular, it is recommended to have the correct functioning of all the safety devices checked periodically.

- Learn to use the manual emergency control system according to the procedures foreseen in the instruction booklet.

Manufacturer's Name: ALLTRONIC s.n.c.

Manufacturer's Address: Via Torino, 84
12041 Bene Vagienna (Cn)
Italy

DECLARES THAT THE FOLLOWING PRODUCT

Product Name: Gas Central

Model: GS200/A - GSI10/A - GSI20 - GSI22/A - GSI4/8
VU GAS METER

CONFORMS TO THE FOLLOWING SPECIFICATIONS BASED ON SAMPLE TESTING:

EN 55011		EN 61000-6-3 + A11
EN 55014-1		EN 60335-1
ENV 555014-2	EN 50194	
EN 61000-3-2		EN 50270
EN 61000-3-3		UNI CEI 70028

The product has been tested in the installation typical configuration and with peripherals which conform to EMC Directive.

The described sample fulfils the above mentioned EMC requirements, on the basis of the test results and their evaluation made by our factory with the following equipments:

SCHWARZBECK MOD. FCKL 1528
SCHWARZBECK MOD. NSLK 8126SN309
HILO TEST MOD. EFTG 4510 (Electrical Fast Transient Generator)
PMM 8010 Receiver S/N 0570 da 8 KHz a 30 Mhz
PMM L3-25 (LISN) Artificial Mains Network S/N 0336 N taratura 0161
COMPUTER OLIDATA Mod. 1451 CLR

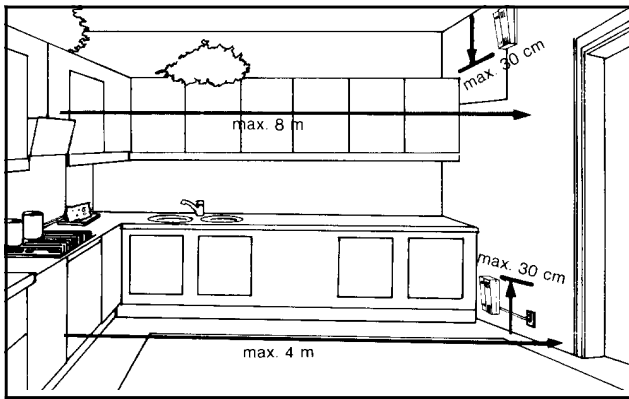
supported by Tests of Competent Bodies: Report No. 242/95 Certified on 24/07/95 and Report No. 354/95 Certified on 11/01/96 - Body "SICURCONTROL" of Carugate (Milan), Accredited SINAL at No. 0046.

I the undersigned declare that the product herewith complies with the protection requirements of the EMC Directive 89/336/EEC, the Low Tension Directive 73/23/CEE (EN60335-1), the British Standard BS 7348 and the European Standard EN 50194.

Bene Vagienna, 10/04/2012

Allodi Francesco

Owner

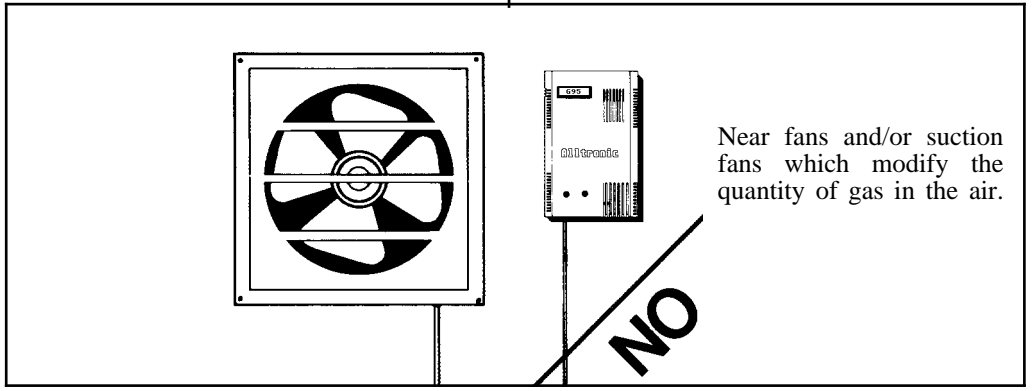
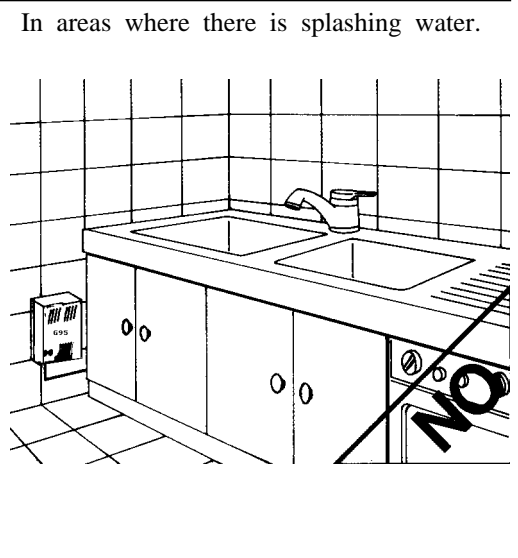
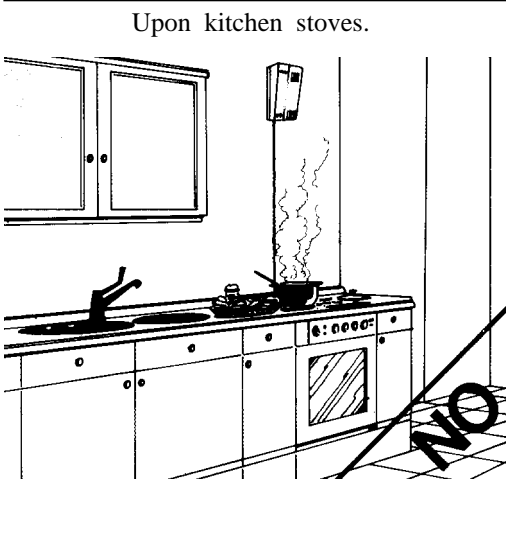


Max. distances of installation:

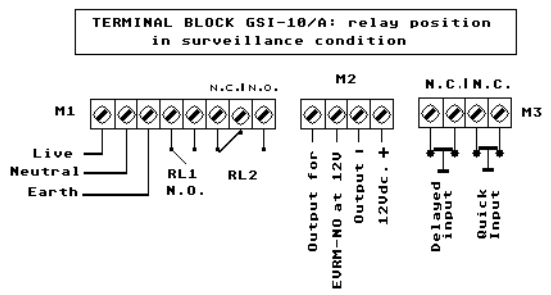
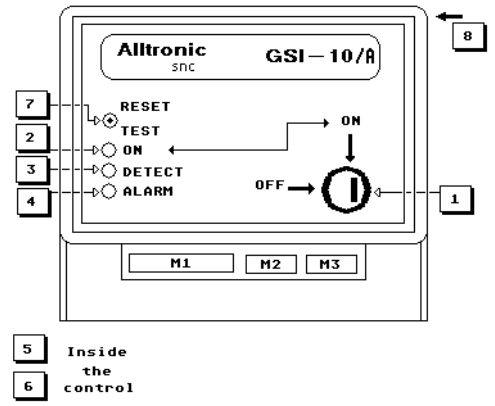
Heavy gases (L.P.G.)
 horizontally : 4 m from gas appliances
 vertically : 30 cm. from the floor

Light gases (natural gas, city gas)
 horizontally : 8 m from gas appliances
 vertically : 30 cm from the ceiling.

Do not place the sensor :



Control type GSI-10/A for sensors GSI



Control for gas sensor with several possibilities of intervention. It can control 4 sensors type GSI (max.).

Technical characteristics:

- Supply at 230V.
- Possibility of self-supply with inside and/of outside battery.
- Possibility of controlling warning signals coming from other safety devices.
- Adjustment of the prealarm time (delay) from 2 to 60 seconds.
- Memorization of the alarm condition with manual reset.
- Two output relay with contacts to control valves, warning horns and/or suction fans.
- Button to check the warning signals.
- Container IP 40.
- Powered by switch under lock.

- 1) Switch-key (ON = LIGHTENED GREEN LED).
- 2) Green led light : power on.
- 3) Yellow led light : one of more sensors (GSI) detect gas.
- 4) Red led light (Alarm) : control in alarm condition.
To reset the control, push RESET button **after having removed the cause of the alarm.**
- 5) Alarm buzzer.
- 6) Trimmer for alarm delay adjustment : turn it clockwise to increase the prealarm time, after which the control reacts (from 1 to 60 sec.).
- 7) TEST/RESET switch.
TEST : it causes the alarm condition and tests the running of the safety devices connected to the control (valves, warning signals, etc.).
RESET : it brings the control back to the surveillance condition after an alarm.
- 8) Lever up by means of a screwdriver in the special corner to open the control. Inside there are 2 small cables (red / black) to connect a contingent battery.

NOTE: to reach the terminal block, take away the cap pressing on the knurled side, vertically, as shown by the arrow.

The GSI-10/A has two relay outputs: one for the PREALARM (control for warning signals - suction fans) with instantaneous action when the sensor is in alarm condition (it keeps this condition for 2 minutes after resetting of the sensor itself), whereas the other is for the ALARM (control for the valves - warning signals) with manual reset on the control.

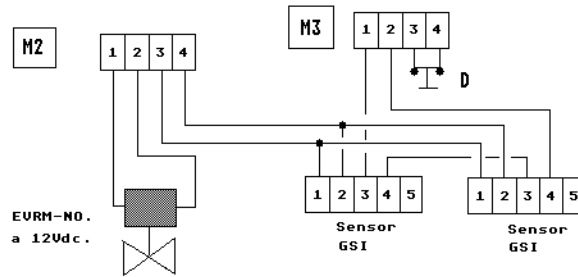
GSI-10/A control connection diagram

M2 central terminal block and M3 right side one:
connection wiring diagram to control EVRM at 12Vdc.; 12Vdc output for sensor supply and input (N.C.).

M2 central terminal block with 4 poles:

1 - 2 = Output for valve
Normally Opened with
Manual Reset at 12Vdc.

3 = 0 V | Output at 12Vdc
4 = + 12V | for sensor supply.

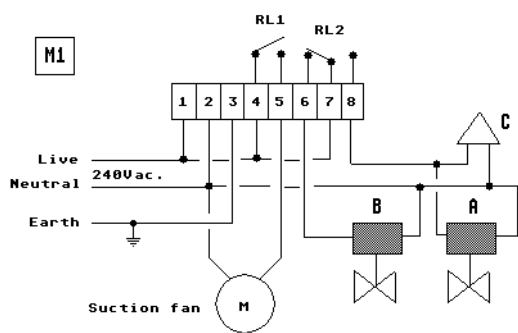


M3 right side terminal block with 4 poles:

1 - 2 = Sensor N.C. contact input (Delayed)
3 - 4 = Sensor N.C. contact input (Quick)

D = Normally Closed Contact (N.C.) with instantaneous action (it can be used to connect other controls - e.g. GS 200 - or a emergency button).

M1 left side terminal block : connection wiring diagram to control valve at 230Vac. with Manual Reset and Normally Closed one in class "A", warning horn at 230V and voltage input.



1 = LIVE input at 230Vac.
2 = NEUTRAL input
3 = EARTH input
4 - 5 = Relay for suction fan control
6 - 7 - 8 = Relay for exchange contacts

A = Valve with Manual Reset at 230Vac. (EVRM).

B = Normally Closed Valve at 230Vac. (EV.NC).

C = Warning horn and/or light at 230Vac.

M = Fan for gas suction and/or warning horn (at 230Vac.).

WARNING: the control type GSI-10 can supply only n. 4 sensors type GSI.
The relay contacts have a power of 2A on inductive load and 4A on resistive load (max. applicable voltage: 230Vac.).

The ALLTRONIC snc will not be responsible for wrong connections, mishandlings or improper use of its equipments and reserves the right to change technical details without notice.

GAS SENSOR INSTALLATION

The control should be placed in a proper environment, avoiding excessive humidity fumes and heat.

CONNECTION TO THE SENSORS:

It is advisable to use n.1 multiwire cable for each sensor (antitheft device).

As far as the supply is concerned, the lowest cable section should be of at least 1 mm² for only one sensor at a max. distance of 50 m (it will become of 1.5 mm² till 100 m).

If more sensors have to be connected on the same cable, use proper sizes according to the number of the connected sensors.

NOTE: When passing near wires at 230V, it is advisable to use screened wires in order to avoid dangerous inductive effects. When testing, check with Vac tester between the 0V of the control and the earth if there is an inductive voltage: in the positive case connect the 0V to earth.

IMPORTANT:

According to the safety rules you must ALWAYS connect the special terminal of the unit to earth.

The control GSI-10/A can supply only 4 sensors type GSI, therefore serious damages can happen if this limit is exceeded.

OUTPUTS:

The control type GSI-10/A can control valves with Manual Reset and/of Normally Closed in class "A". Remember to exactly follow the diagram in the previous pages when connecting them.

WARNING:

The control GSI-10/A can control valves type N.C., those with Manual Reset at 230Vac. and the EVRM at 12Vdc. (see diagram).

It is possible to use more valves at 230V connecting them in parallel, but for the EVRM at 12Vdc. you can connect ONLY ONE.

GAS SENSOR INSTALLATION

The sensor should be placed in the area to be inspected according to the law requirements and the following instructions:

-To detect light gases (natural gas) - place it near the ceiling (10-30 cm).

-To detect heavy gases (LPG) - place it near the floor (10-30 cm).

-Do not place it more than 4 meters far from kitchen stoves when it is fixed on the floor (LPG) or more than 8 meters when it is fixed on the ceiling (natural gas).

-Never place it less than 30 cm far from the ceiling or more than 30 cm from the floor.

-Never place it directly upon kitchen stoves.

-Never place it near fans, suction fans or refrigeration systems.

-Never place it near areas where there is much steam.

-Never place it in areas where there is splashing water.

-Never place it in closed rooms

-Never place it near doors or windows.

-Never place it in areas where temperatures are different from the limits given by the manufacturer.

-Install it in places safe from possible damage.

-Place it avoiding any impediment between the sensor and the kitchen.

-Place it so as to permit easy handling and maintenance of the unit.

-Remember that the sensor can be affected by composed gas (alcohol, cigarette smoke, deodorizers, insecticides).

-Install the sensor taking care not to inadvertently disconnect it from other switches.

-Remember to periodically test its performances spraying some light gas on the sensor (e.g. cigarette-lighter gas).