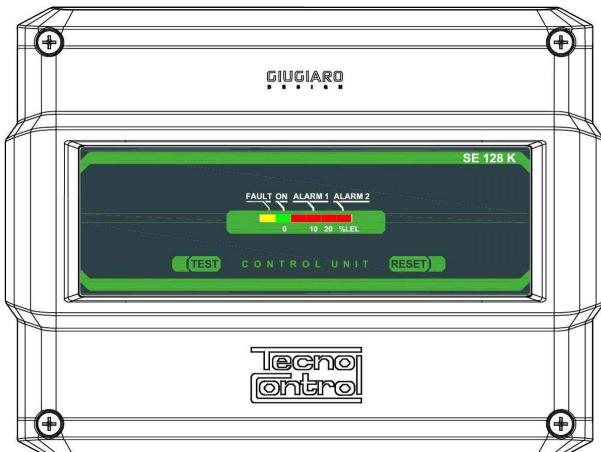




Centralina gas per centrale termica con rilevatore remoto

Gas control unit for heating plants with remote detector

Centrale détection de gaz pour chaufferies avec sonde extérieure


**Rilevatori collegabili all'SE128K
Detectors which can be connected to the SE128K
Sondes raccordables au SE128K**

Modello Model/ Modèle	Caratteristiche Features/ Caractéristiques
SE192KM	Metano/Methane – IP44
SE192KG	GPL/LPG – IP44
SE193KM	Metano/Methane - Ex II 2G Ex d IIC T6 Gb
SE193KG	GPL/LPG - Ex II 2G Ex d IIC T6 Gb
SE183KM	Metano/Methane - Ex II 2G Ex d IIC T5 Gb
SE183KG	GPL/LPG - Ex II 2G Ex d IIC T5 Gb

Caratteristiche tecniche / Technical specifications / Caractéristiques techniques

Alimentazione / Power supply / Alimentation	230Vac (-15/+10%) 50Hz / 3VA 12÷24Vac (-15/+10%) 50Hz / 3 VA 12÷24Vcc (-10/+15%) / 1,5 W
Rilevatore remoto / Remote detector / Sonde extérieure	Catalitico / Catalytic / Catalytiques
Campo di misura / Standard Range / Champ de mesure	0 ÷ 20% LIE / LEL
Intervento Allarme 1 1st Alarm intervention / Seuil d'intervention de alarme 1	10% LIE / LEL
Intervento Allarme 2 2nd Alarm intervention / Seuil d'intervention de alarme 2	20% LIE / LEL
Contatti relè / Contacts rating / Contact relais	230Vac 3A SPDT
Temperatura-Umidità di funzionamento Operation Temp-Humidity / Temp. et humidité de fonctionnement	-10 ÷ +50 °C / 5 ÷ 90 % RH non condensata / non condensed / non condensée
Pressione di funzionamento Operation Pressure / Pression de fonctionnement	Atmosferica ±10% Atmospheric±10% / Atmosphérique ±10%
Temperatura-Umidità di immagazzinamento Storage Temp-Humidity / Temp. et humidité de stockage	-25 ÷ +55°C / 5 ÷ 95 % RH non condensata / non condensed / non condensée
Grado di protezione / IP Code / Indice de protection	IP65
Dimensioni / Size / Dimensions	202 x 153 x 104 mm
Peso / Size- Weight	0,7 Kg

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2nd Red LED (ALARM 1): it switch on if the gas concentration exceeds 10% LEL; if within 4 seconds the gas is not reduced, the **PREAL**. relay will activate. This relay is normally used as a prealarm using a siren (SE301A).

3rd Red LED: it switch on if the gas concentration exceeds 20% LIE; if the gas persists, the 4th red LED **ALARM 2** switches on within 30 seconds and the **ALARM** relay will activate. It is normally used to stop the gas through the manual reset solenoid valve (NO or NC) and/or the interruption of the electrical energy.

If it has been installed a manual reset solenoid valve N.C. with magnetic sensor (mod. VR420÷VR480) connected to "AUX" input, in the case that the gas is still open, the yellow LED and the **FAULT** Relay will activate (see **FAULTS** section).

RESET Key: The alarm condition remains latched, LEDs and relays remain activated, even if the gas concentration is reduced, because the mounted valve is closed. To reset the normal working conditions and/or switch off the siren push the **RESET** key.

Buzzer: the **PREAL**. relay will be deactivated and the red LED flashes, only if the gas concentration is higher than 10% LEL. After 20 seconds, both of them will return in prealarm. (the siren rings)

If it has been used a manual reset solenoid valve NC with the magnetic sensor and in the case that it is snapped, the yellow LED will switch off and the **FAULT** relay will be deactivated. (See **FAULTS** section).

Alarm RESET: The central unit will begin to the normal working, only if the gas concentration is lower than 10% LEL, the **ALARM** relay will be deactivated and the 3rd and 4th red LED will switch off. If activated, the **FAULT** relay will be deactivated and the yellow LED will switch off. (see **FAULTS** sections).

Warning: Pushing the **RESET** key, **if the gas concentration is higher than F.S.**, it can happen that the first **PREAL**. relay will be deactivated and the first three Rrd LEDs will switch off. The yellow LED will illuminate and the **FAULT** relay will activate. **A fault on the Remote Detector is most probable in this case.** Eliminate the alarm's cause, if the condition persist pushing the **RESET** button, please consult the **FAULTS** section.

FAULTS: The central unit signal different kind of failures activating the yellow LED and the **FAULT** relay. That is normally activated. This relay, if necessary, can be used both to signal remotely an occurred damage and to signal the absence of power to the instrument.

Yellow and green LEDs and FAULT relay activate: this happens when the remote detector is not working. If this condition do not change, it will be necessary to replace the detector or to send it to the supplier back to repair.

Yellow, green, 4th red LEDs, FAULT and ALARM relays activate: (ONLY after press **RESET** key) this happens when the remote detector is not working or in few cases when there is a higher gas concentration. In this case the central unit will remain in alarm, as described in the OPERATING>WARNING section. If there are not any gas leaks, please verify the cable connection between remote detector and central unit. If the condition does not change, replace the remote detector and/or send it back for reparation to the supplier.

Manual reset solenoid valve NC with magnetic sensor failure: this situation appears **ONLY** when is installed an electro valve with magnetic sensor; if it not close the gas, the **ALARM** relay will activate (gas concentration higher than 20% LEL) and the magnetic sensor signals to the central unit the this bad working. In this case all led will be lighted and relays will be activated. The failure condition (yellow led lighted and **FAULT** relay activated) will be cancelled if pressing the **RESET** key, the solution of the problem will be visualized.

INSTALLATION

The **SE128K** should be installed according to the national disposition in force on the matter.

Positioning: the central unit should be wall-mounted in an accessible position and easily visible. The central unit should not be installed to the open air.

The remote Detector: it has to be installed as described in the specific instructions attached with it.

After the installation and referred to the gas indicated on the testing label of the remote detector, apply on the **SE128K**, the self-sticking label with the name of the calibration gas inserted in the housing.

Mounting: The **Fig. 2** shows the instrument size. It has to be wall-mounted by four screw anchors. The **normally closed manually resetting valve** for the gas cut-off should be installed outside the room in a clearly indicated position and should be protected from rain.

Cable glands: the lower side of the housing has 3 inputs designed for metric cable glands (*M20x1.5 that accept external cables Ø 6÷12 mm*). These passages are closed, but they are not manually breakable, according to the installation requirements, they must be drilling. To facilitate the operation, they have a centering for the drill bit.

Electrical Connection: The installation must be provided for the mains, a bipolar disconnect switch dedicated for the gas detection system. The device, clearly identified, must act only on Phase and Neutral. If it is necessary, you may install a surge or lightning protector, etc.

The instrument is supply with non reversible and plug-in terminals. Therefore the cables should be anchored to the case in order to avoid terminal overstress. The connection to the central unit does not need any hearting. The remote detector can be placed at a max. distance of 100 meters from the central unit with a cable of 3x1.5mm² or to a distance of 200 meters using a 3x2.5 mm² cable. It is not necessary to use shielded cables.

Fig. 3 shows the 230VAC powering connection with alarm siren and normally closed manual resetting valve.

Fig. 4 shows the 230VAC powering connection with alarm siren and normally open manual resetting valve.

Fig. 5 shows the 230VAC powering connection with alarm siren and our normally closed manual resetting valve with positioning sensor (models VR420÷VR480,) to verify, if an alarm occurs, the really gas cut-off.

Fig. 5 shows the 12VDC powering connection with both 12VDC alarm siren and normally closed manual resetting valve with, for example, our power supply unit PS175 (1,2A) or PS180 (2,5A) with internal 12VDC-7Ah battery to maintain the system powered on in absence of Main power supply. In this case, it is possible to connect the power supply also to 230VAC.

contraire il faut contrôler la condition de l'électrovanne et répéter le test. Si le résultat ne change pas, il y a des problèmes électriques. Dans ce cas contacter le fournisseur.

Si le 3^{ème} LED rouge s'éteint: ceci est seulement dans le cas de la centrale avec le fil de contrôle de certaines typologies d'électrovannes. Le fil de contrôle de l'électrovanne est coupé ou l'électrovanne est ouverte. Dans ce cas vérifier l'état de l'électrovanne et la connexion du fil de contrôle et répétez le test. Si le fil n'est pas connecté, vérifier que le pont de la connexion AUX soit bien connecté et répéter le test.

Dans tous les autres cas: Si il y a des LED qui ne s'allument pas ou des relais qui ne s'activent pas, la centrale est en panne, la remplacer ou la renvoyer au fournisseur.

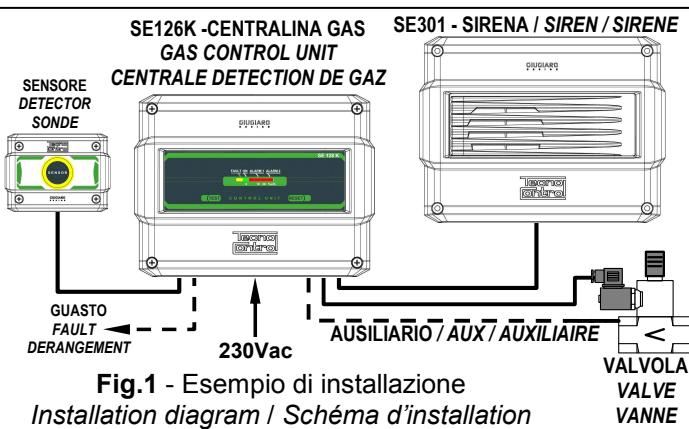


Fig. 1 - Esempio di installazione
Installation diagram / Schéma d'installation

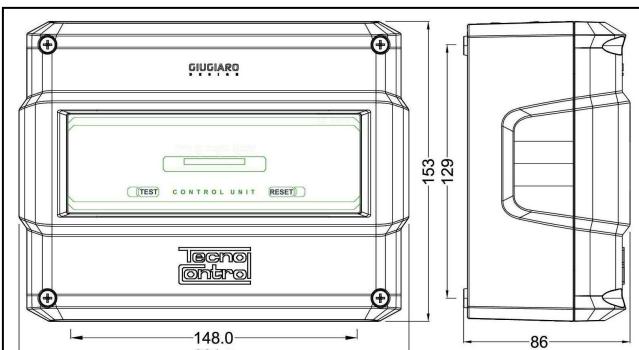


Fig. 2 Dimensioni / Size / Dimensions

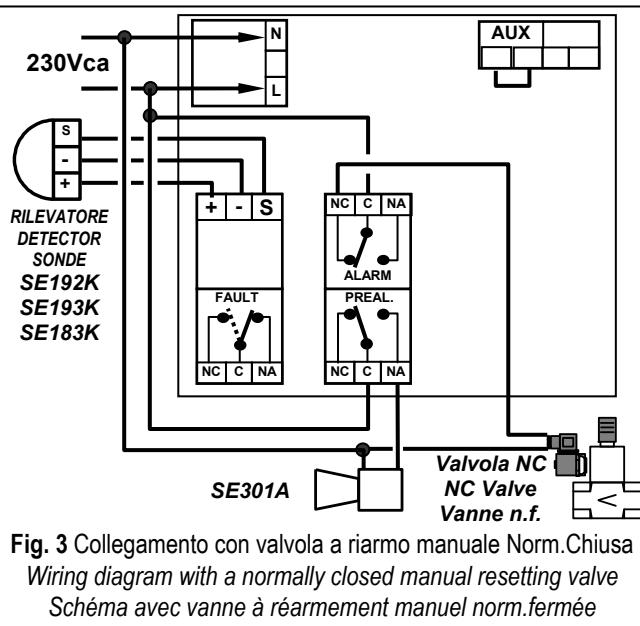


Fig. 3 Collegamento con valvola a riarmo manuale Norm. Chiusa
Wiring diagram with a normally closed manual resetting valve
Schéma avec vanne à réarmement manuel norm. fermée

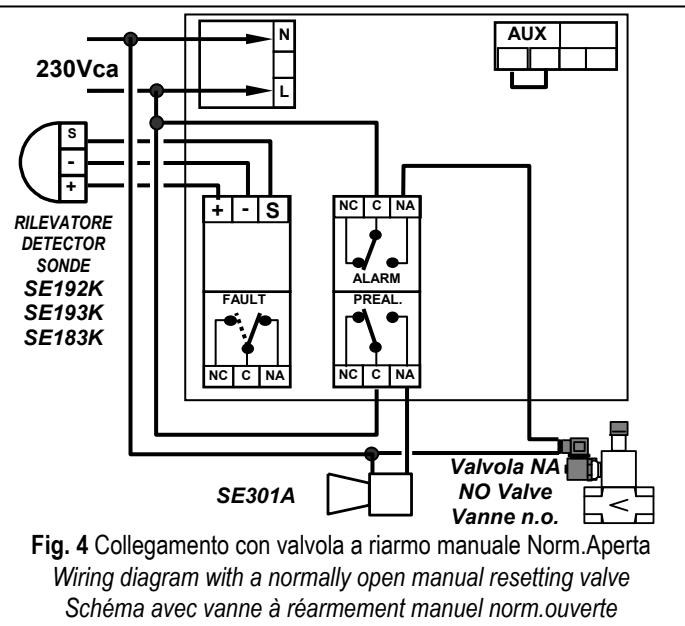


Fig. 4 Collegamento con valvola a riarmo manuale Norm. Aperta
Wiring diagram with a normally open manual resetting valve
Schéma avec vanne à réarmement manuel norm. ouverte

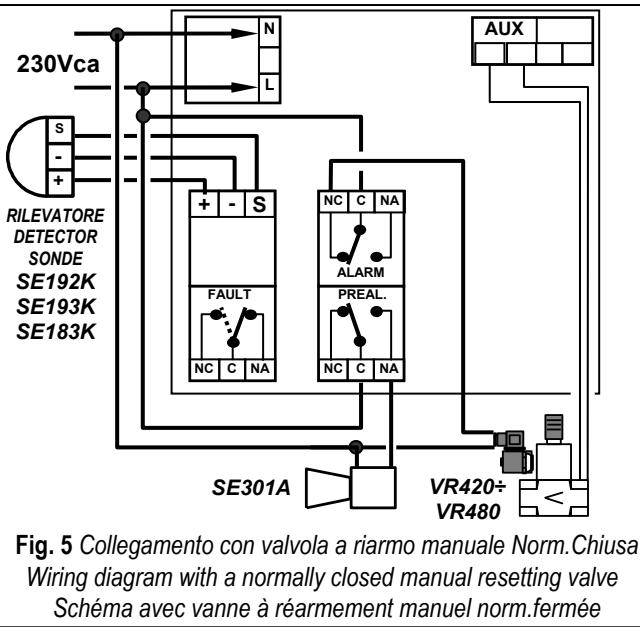


Fig. 5 Collegamento con valvola a riarmo manuale Norm. Chiusa
Wiring diagram with a normally closed manual resetting valve
Schéma avec vanne à réarmement manuel norm. fermée

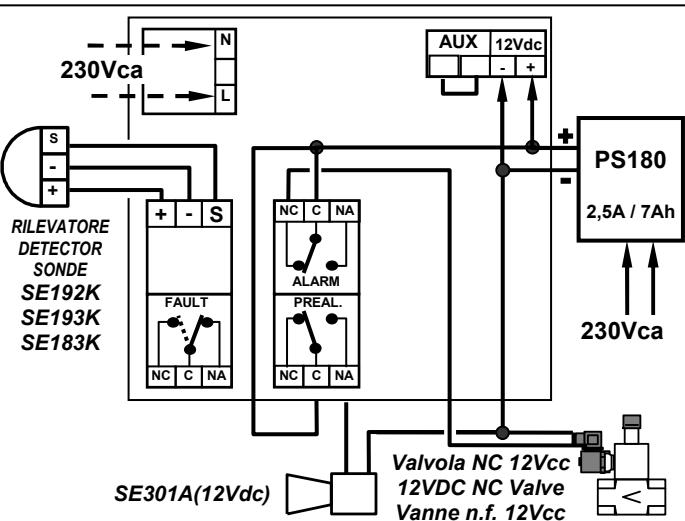


Fig. 6 Collegamento 12Vcc con valvola a riarmo man. Norm. Chiusa
12Vdc Wiring diagram with a normally closed manual resetting valve
Schéma à 12Vcc avec vanne à réarmement manuel norm. fermée