GAS DETECTOR FOR DOMESTIC INSTALLATION

SE230K-SE233K

English

Made in Italy



This document refers to gas detectors: SE230K-SE233K series marked Tecnocontrol.

DOWNLOAD THE MANUAL USING THE FOLLOWING QR CODE, OR FROM THE FOLLOWING WEBSITE:
www.gecasrl.it - www.tecnocontrol.it

Model	Power supply	Logic	Gas detected
SE230KM	230Vac-50/60Hz/12Vdc	Negative	Methane
SE230KG	230Vac-50/60Hz/12Vdc	Negative	LPG
SE233KM	230Vac-50/60Hz/12Vdc	Positive	Methane
SE233KG	230Vac-50/60Hz/12Vdc	Positive	LPG

GENERAL DESCRIPTION

The SE230K and SE233K are gas detectors for methane and LPG that advices with an optical and acoustic signal the presence of gas in the environment.
The SE230K/SE233K detectors are calibrated to notice existent gas in the environment up to 10% less from the explosion concentration L.E.L. (Low Explosion Limit), this threshold can change following the environmental conditions but it will not be over passed, during the first 4 years of use of the 15% L.E.L., after that period the instrument have to be put out of order or resend to Tecnocontrol S.r.l. for a complete substitution of the device.
With that aim, the package is provided with a printed label on were is indicated the correct working period (4 years from installing date); this printed label have to be filled from the installer on the frontal panel of the detector during the installation.

LIMINOUS AND ACOUSTIC SIGNALISATIONS

These gas detectors are provided, on the front panel, by three luminous signalisations:

-GREEN LED (ON): indicates that the instruments is powered.

-YELLOW LED (FAULT): Indicates that the gas sensor is damaged.

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

In case of damage of the sensor, the gas detector is able to indicate the wrong function, lightning the yellow led and activating a sound alarm with two seconds' of intermittence. In case of alarm the detector lightning the red led and after 20 seconds the buzzer emits a sound alarm and the relay activates.

LIGHTING DELAYS

The catalytic sensor in the SE230K/SE233K, need to be heated for about one minute of working in a correct way and for that reason,when the detector is lighted on the green led it will lighten to indicate that the sensor is in the heating phase. During this time, all the detection functions will be inhibited.

OPERATING PROBLEMS

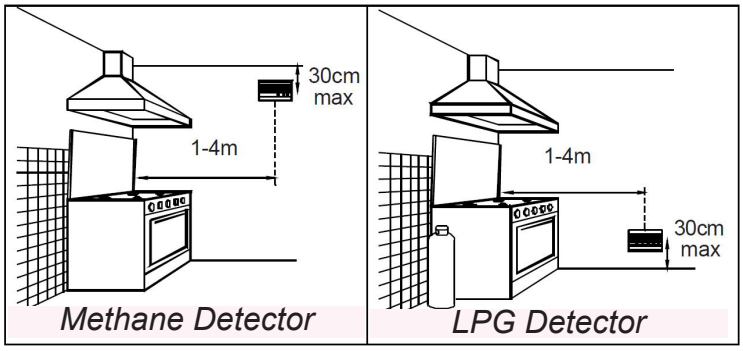
If, after about five minutes after turning on the detector, all three LEDs blink, this indicates a sensor problem. In this case the sensor must be replaced.

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 has to be installed:
- the detectors SE230KM and SE233KM for methane at a maximum *distance of 30 cm from the ceiling; the detectors SE230KG and SE233KG for LPG 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..).
- possible in every room in which there is a gas device and in residences with more than one floor, at least one detector for each floor.



The instrument does not have to be installed:
- directly over the sink or on the gas device.
- in small rooms where alcohol can be utilised, ammonia and spray bottles of gas or other substances with flying solvents.
- in low ventilated environments.
- near to walls or hindrance that can stop the gas flow 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°C or under –10°C
-in the 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).

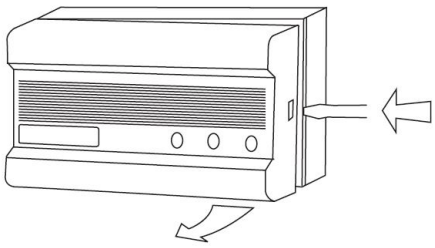


Fig.1

Positioning in the correct way the base, on the board mounting 3-moules boxes directly in the wall by using screws that are provided in the box. For installing the dowels drilling the wall with a 5 mm drill.

ELECTRICAL CONNECTION

POWER SUPPLY
Attention: The electrical connection has to be carried out by specialized technical staff. *The detectors are power supplied 230Vac 50/60Hz through connecting terminal one and two, or 12Vdc by connecting terminal 3 (+) and 4 (-) (Fig.2). It has to be provided with an device, to be disowned from the detector and the feeding net, with minimun 3 mm contact distance in accordance wit has written in the "European Standard EN 60335-1".*

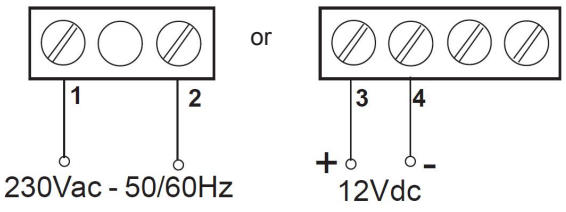


Fig.2

OPERATING CONTROLS

After the installation it is possible to check the correct use ofthe instrument by pushing for at least 2 seconds the TEST button on the board. Using this method all the leds will be lighted, also the acustic alarm will be active, and the exit relay for a period of five seconds.
The E.V. if connected, has to be manual rearmed.

WARNING

For the clining of the instrument utilize a cloth to take away the dust from the covering. Don't try to open or disassemble the detector, it could cause an electric shock and damege the product.
Note that the sensor employed has a good resistance towards products such as sprays, detergents, alcohol, glues andpaints.
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 where products like these can be used.
Note that the detector is not able to detect gas leaking outside the room where it is installed, neither inside walls or 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 withoutpower 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 ventilationIf 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.

SALES CONDITION

THE PRESENT CERTIFICATE IS THE ONLY DOCUMENT TO HAVE THE RIGHT OF REPARATION OF DEVICE IN WARRANTY

- *The product is warranted for 24 month from purchase date.*
- *Any damages caused by tampering and incorrect use or installation will be not covered by warranty.*
- *The warranty is valid only if is full compiled.*
- *In case of defects covered by warranty, the producer will repair or replace the free product.*

PERFORMANCES OUT OF WARRANTY:
When warranty's terms are spent, the eventual reparations will debited in according to the replaced parts and to the hand costs.

WARRANTY CERTIFICATE

COMPILE AND SEND IN CASE OF DAMAGE.

DEVICE:
☐ SE230KM ☐ SE230KG ☐ SE233KM ☐ SE233KG

Serial number (s.n.)_____

DEALER
Stamp:

Date of purchase:

_____/_____/_____

USER
*Surname and name*_____
*Address*_____*N°*_____
*City*_____
*Telephone*_____

TO COMPILE BY THE INSTALLER:

Installation date _____
Substitution date _____
Installation local _____
Instruments' serial number _____
(to read on the internal part of the plastic involucres)

Stamp

Sign _____

TECHNICAL CHARACTERISTICS

- Power supply:	*230Vac, 50/60Hz / 12Vdc 2,5W.*
- Power dissipation:	*20mA max.*
- Operation temperature:	*-10°C…… +40°C.*
- Relative humidity:	*30%…… 90%.*

- The operative level to intervene at an concentration of the 10% of the L.E.L. (the lower explosion limit) of the gas.
Intentional delay of the starting connection to the instrument : 1 minute approximately.

- Intentional alarm and relay time delay:	*about 20 seconds*
- Acoustic signalisation:	*85dB (A) in 1 meter*

- Electronic auto-diagnosis with signalising of eventual abnormalieties
- Grade of protection: IP42
- According to Standard CEI UNI EN50194-1:2009

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CE

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