



The purpose of this product consists in protecting the passengers from robberies with narcotic gas if they have to stay over night inside of the vehicle for professional reasons or on travel. On the basis of new researches and statistics it could surely be said that the gas for such purposes is without difficulties free available on the market. The spraying of such gases in clothed rooms has a narcoting effect, not suddenly but after inhaling it for some minutes.

Now the SOPOALARM is able to:

1. locate the presence of such gases in the atmosphere already before the narcotic effect develops and the victim loses his reactivity.
2. wake up the potential victims by a loud warning signal.

Important:

The device is extremely sensitive for all etheric hydrocarbons with narcotic effect, because it is equipped with a sensor (sensitometer) especially developed for this purpose and not suitable for the location of methane (natural gas), LPG (liquified petroleum gas), carbon monoxide and other gases.

The SOPOALARM therefore is NOT applicable as a usual gas indicator.

If the SOPOALARM should function duly, pay attention to the following instructions:

1. Apply only in air without harmful substances
2. Do not apply together with heating furnaces which dissociate exhaust gases into the vehicle interior.
3. Do not apply while cooking in the kitchen (actually the SOPOALARM should be activated just before the time to sleep)
4. Do not apply if the passengers have consumed alcohol in abundance. The sensor treats alcohol (in general ethyls) in the breath equal to ether compounds so that an alarm could be initiated.

Installation

1. Remove the four retaining screws of the front cover and lift it from

- the base of the device been situated behind it.
2. Place the supply cables so that they come out at the place from the wall where the installation for the SOPOALARM is provided and through the opening at the right side of the base plate (fig. 2) could be passed into the device.
 3. Fix the device with the supplied screws ideal cloth to the sleeping-place approx. height of the mattress. Use for it the mounting holes in the base plate of the device (fig. 2) **Caution!** Attend to that the breathers located in the casing of the device stay free.
 4. Connect the supply cable to the terminal plugs named "+" and "-". Attend to that you do not exchange the pols. (fig. 3)
 5. **Caution!** Make sure that the connection of the SOPOALARM ensues with 12 V direct-current even if the vehicle is connected to an a.c. mains of 220 V.
 6. The connections "Na" and "C" which correspond to a free switch relais are assigned for the possible connection of external devices. **Caution!** An additional relais has to be inserted for the connection of devices with a current consumption of more than 1 ampere/12 volt. You can connect to the Sopoalarm devices like additional sirens, signal lamps or fans for the automatic outlet of narcotic gases.
 7. Place the front cover again on the casing and fix with the retaining screws.

Use, control and check

The device should be switched on less minutes before the passengers go to sleep and it should be switched off after awaking when no more required. **Caution!** Calibrate the device for each activation in order to enable the sensor for the current environment conditions.

For the initiation, calibration and activation follow the listed instructions carefully:

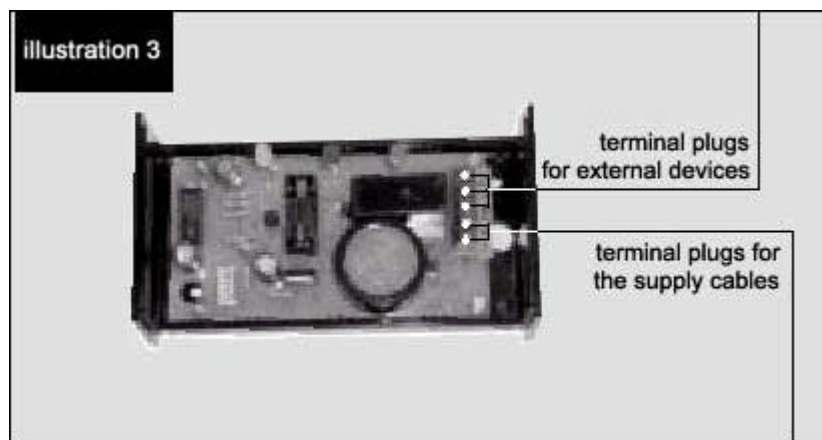
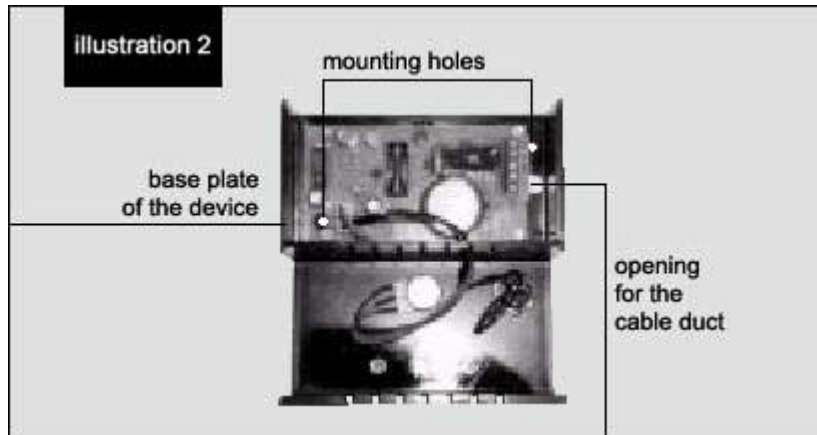
1. Turn the switch with the name "SENSIBILITY" anticlockwise towards the sign "-" up to the limit stop.
2. Move the switch named "MASTER" with the help of the provided key to the position "ON", thereup the green LED "ON" lightens.
3. Wait for the appearance of the yellow LED "READY" which starts lightening after approx. 2 minutes after initiation.
4. Turn the switch named "SENSIBILITY" slowly clockwise towards the sign "+" until the alarm of the device sounds. This happens when the red LED "ALARM" lightens and the acoustic warning signal sounds.
5. Now turn the switch named "SENSIBILITY" about three indents (one indent refers here to the adjustment of the rotary switch) back to the sign "-".
6. At this point the device is adjusted correctly and ready to function.

In order to stop the operation of the device turn the switch named

"MASTER" with the help of the key to the position "OFF".

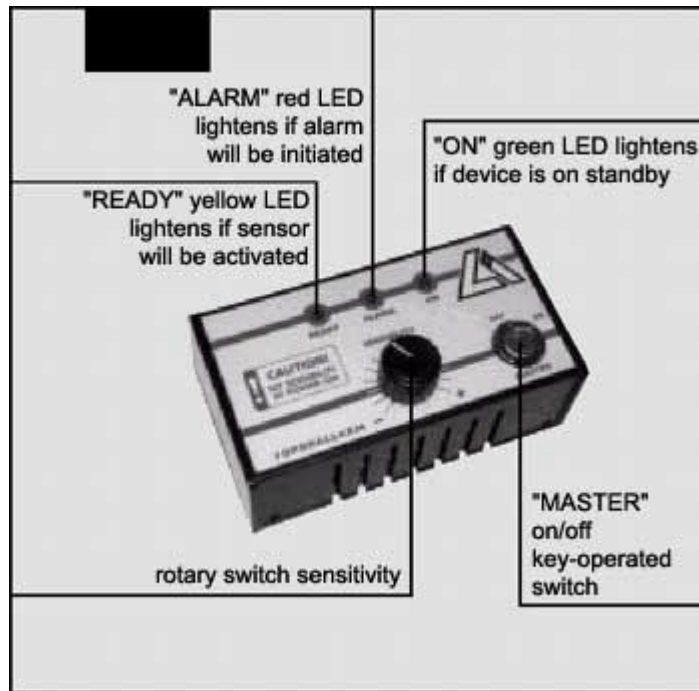
Check the function of the device as follows:

1. Activation and calibration of the SOPOALARM as described.
2. Hold a usual lighter at the inferior breather of the device and let gas flow out of the lighter without inflaming it.
3. In operating the SOPOALARM duly the alarm will be activated after a few seconds by the warning signal and the visible indication.



Technical information

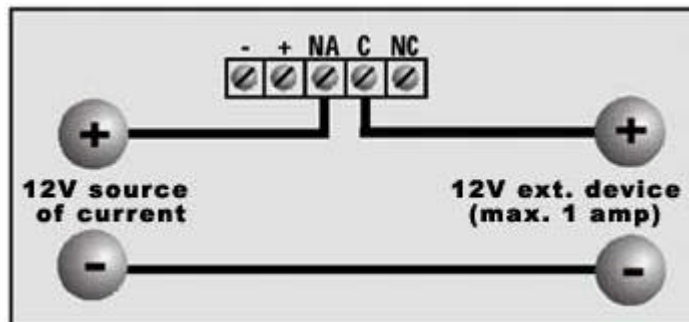
- **operating voltage 12 V**
- **running amps in standby conditions 180 mA**
- **running amps in alarm conditions 220 mA**
- **retardation after activation: approx. 2 min**
- **required relative humidity: 15% - 100%**
- **sensitivity: 100 ppm to 5000 ppm (regulable)**
- **loudness of the alarm: 85 dB**
- **weight: approx. 200 gramme**



Connexion of external devices

If you open the device you will see the following insulating screw joint connection at the border. Connect the additional devices as described below.

Connection diagramm:



The connections "Na" and "C" which correspond to a free switch relais are assigned for the possible connection of external devices. You can connect to the Sopoalarm per example additional sirens, signal lamps or fans for the automatic outlet of narcotic gases.

Attention!Caution!Attention!Caution!

An additional relais has to be inserted for the connection of devices with a current consumption of more than 1 ampere/12 volt. In case devices with a higher current consumption as the one mentioned will be connected without an additional relais, the risc occurs that the SOPOALARM will be destroyed.

Attention!Causion!Attention!Causion!

In this case a warranty is excluded!