

AMS[®] gas warning system **camp-signal**



INSTALLATION AND OPERATING INSTRUCTIONS

for **camp-signal P**
with sensor for liquid gas (propane, butane)
and natural gas (methane)

Introduction

These operating instructions provide important information on the correct installation and operation of your gas alarm. Please read the instructions completely and carefully before installation. Keep the instructions and pass them on to third parties as necessary.

Intended use

The Camp Signal P is designed to detect methane, butane and propane gas. It is intended for use in caravans and campers.

The design is based on a type B device - to emit an acoustic alarm.

Attention:

- Devices designed to detect combustible gases are no substitute for correct gas installation and proper operation of gas plants.
- The selection of the location at which measurements are made and the correct installation of the gas detector are decisive for the proper operation of device. It is strongly recommended, therefore, that the device is only installed by a qualified specialist.

Scope of delivery

- 1 Camp Signal P
- 1 fixing screw
- 1 Installation and Operating Instructions

Technical data

Alarm thresholds / sensitivity:

Methane (town gas/natural gas)	about 0.8 Vol. %
Butane (liquefied gas)	about 0.4 Vol. %
Propane (liquefied gas)	about 0.5 Vol. %

Alarm volume	about 80 dB (A) / 0,5 m
Operating temperature	-10°C to +40°C
Humidity	max. 95% rel.
Dimensions	55 x 30 mm (Ø x H)
Protection level	IP 20 DIN 40 050
Operating voltage:	12 V DC (-15% / +10%)
Current consumption:	max. 250 mA

Safety information

- Operate the Camp Signal P only with the operating voltage specified for the device.
- This device is only suitable for indoor use. Keep away from moisture.
- Modifications made to the Camp Signal P can result in electric shock or malfunction.
- Do not open the device. Opening the device voids all guarantee claims.

Placement

The Camp Signal P is designed to be wall-mounted. The installation location must be selected in accordance with the following criteria:

For liquefied gas (propane/butane)

For the detection of liquefied gas, the distance from the floor should be 15 - 30 cm and the distance to the gas device at most 4 m. Please make sure that the selected installation site is not directly next to an exit.


Escaping liquefied gas is heavier than air so falls to the floor and spreads out there.

For town gas/natural gas (methane)


For the detection of town gas/natural gas, the Camp Signal P should be installed 15 - 30 cm below the ceiling and at most 6 m from the gas device. Please make sure that the selected installation site is above the highest window or door opening. Town gas and natural gas are lighter than air so rise upwards.

The following locations are not suitable installation sites:

- Outside of the vehicle, e.g. for the monitoring of open bottle crates
- Separated areas (e.g. closet interiors or behind curtains) which could, in the event of a gas leak, prevent the alarm from triggering
- In air currents from fans (ventilation, air-conditioning, etc.) or in the vicinity of doors or windows
- Close to a smoke exhaust
- Areas in which the temperature can fall below -10°C or rise above +40°C
- Wet rooms such as bathrooms and showers where the relative humidity can rise above 95%
- Directly next to a cooking stove
- Directly above cooking facilities
- Directly above a drain or a basin (for town gas/natural gas)
- Directly below a drain or a basin (for liquefied gas)
- Areas where dirt and dust can clog the sensor
- In rooms with potentially explosive atmospheres

 **The alarm may not be used outdoors!**

Installation

 **Make sure that the voltage is disconnected during installation and when connecting the power supply!**

The Camp Signal P can optionally be fixed by sticking or by screws or a combination of both.

Attachment by sticking: Remove the dust and the grease from the position the system is supposed to be fixed (only smooth, solid surfaces, no wallpapers) — if necessary by means of a solvent — and let it dry. Take off the anti-adhesive paper from the surfaces to be glued at the case back and press the case firmly onto the wall.

Attachment with screws: Slightly lift the grey centre cover panel with a small screwdriver, screw on the system with the enclosed screw through the bore-hole (maybe to be bored before) and reattach the centre cover panel.



Make absolutely sure to install the alarm at the height specified in the chapter entitled 'Placement'!

Electrical connection

Electrical connection to 12 Volt direct current (DC) only.

Tolerance: -15% / +10%

We recommend a connection cable with core identification.

Make sure the connections have the correct polarity!

Operation

The system is equipped with an ON/OFF switch. Therefore, switch on the device when putting into operation.

When you switch on, the green operation indicator is lighting up.

Heating time

After the switch-on the sensor of the warning system needs a short heating time to reach its full operability. During this heating time the acoustic signal is wailing and ebbs completely away when the full operability is reached. Duration up to about 2 - 3 minutes. In this way the system is ready-to-run.

Alarm

The sensor of the Camp Signal P registers escaping gas. The device emits an alarm if the sensor registers a gas concentration in excess of the sensitivity threshold set in the factory: A signal tone sounds. The alarm continues until the gas concentration falls below the preset sensitivity threshold.

 **Do not switch off the device in the event of an alarm!**

What to do in the event of an alarm

Remain calm in the event of an alarm. Carry out the following measures:

- Extinguish all open flames including all smokers' articles.
- Turn off all gas applications.
- Do not turn electrical devices on or off.
- Do not, under any circumstances, disconnect the Camp Signal P from the power supply.
- Interrupt the gas supply at the main shutoff valve or at the cylinder or storage tank valve.
- Open doors and windows to increase ventilation.
- Do not use telephones in the vehicle in which the presence of gas is suspected.

If the alarm continues and the source of the escaping gas is not obvious or cannot be corrected, the vehicle must be cleared and the maintenance or service company for the equipment has to be informed IMMEDIATELY so that the gas installation can be checked, secured and repaired.

If the alarm stops and the cause of the alarm has been established and corrected (e.g. the gas valve was open and the burner not in operation), the main gas supply can be opened again once the escaping of gas has been stopped and it is sure that all consumers have been shut down.

Function check

Use a gas lighter to test that the gas alarm is functioning. Please proceed in the following steps:

- Let gas out of the lighter directly next to the sensor opening of the device **without** a flame.
- The sensor will register the escaping gas. The device emits an alarm if the sensor registers a gas concentration in excess of the preset sensitivity threshold: A signal tone sounds.
- As soon as the alarm signal goes off, do not let any more gas out of the lighter.
- The alarm mutes automatically as soon as the gas concentration at the sensor falls below the preset sensitivity threshold.

The function test should be carried out regularly, at least every 4 weeks!

False alarm

To fulfil its purpose, the alarm system is set so that it is very sensitive. The system's sensor can therefore also respond to other gaseous media. The use of aerosols (propellants in sprays, etc.) and high tobacco smoke concentrations can also trigger an alarm.

Service life

When operating continuously under normal ambient conditions, the expected service life of the sensor is approx. 7 years.

Replace the Camp Signal P after a service life of 7 years!

Various chemicals can damage the sensor permanently. Do not subject the sensor to the following substances and environments:

- Sprays and adhesives containing silicone
- Aggressive environments in which hydrogen sulphides, sulphur dioxide, chlorine or hydrogen chloride is present (cleaning agents containing chlorine, descaler sprays)
- Moisture and condensate
- Salt-laden atmospheres

Maintenance and cleaning

- Regularly clean the housing of the device with a duster or slightly damp cloth. Remove as much of the dust deposits as possible from the slit openings in the housing.

The Camp Signal P must never be sprayed with water!

- Regularly check the functionality of the device (see the chapter on function tests).

Important

- For maximum security, the device should be operated continuously.
- The Camp Signal P must be installed properly. Please work as specified in the operating instructions.
- Make absolutely sure that the gas alarm is installed at the correct height for each type of gas.
- Please consider permitted range of temperature and moisture.
- The formation of gas could be registered before the gas alarm is triggered.
- We draw to your attention to the fact that the gas alarm can also react to a brief escape of gas, e.g. when a device starts up.
- In case you put the system into operation in a vehicle, you may exclusively activate the system if the engine is turned off.
- We reserve the right to make improvements to the construction and design so we are always able to supply state-of-the-art warning devices.

Disposal



Electrical devices may not be disposed of in normal household waste. In accordance with the law, used electrical devices must be recycled in an environmentally compatible way. At the end of its service life, take the device to the waste disposal facility of your city or community.

Guarantee

We guarantee this device for 2 years from the date of purchase. The guarantee applies only to material and manufacturing defects. Further claims or other claims, especially those for compensation for injury to persons or damage to property outside of the device, are excluded. There is no legal claim for the compensation of damage arising from fire or explosion. We are under no obligation to make repairs or to replace components whose defects derive from misuse, damage or modification after the date of purchase. The obligation to bear liability arising from the sale of the device will under no circumstances exceed the cost for replacement of the product. Under no circumstances will we assume liability for consequential damages arising from product defects. The guarantee applies in connection with the sales receipt which must be sent in with the device. The cost of postage is borne by the customer. Unauthorised work on the device invalidates all guarantee claims. Your statutory rights are not limited by this guarantee.

The product is intended for private use only, and not for commercial use.

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