

USER MANUAL

GAS DETECTOR

PCE-GA 5

ENGLISH



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com

INTRODUCTION

This product is designed to detect explosive gases (natural gas and LPG) in the air for houses, offices and similar places etc. In case of gas leak, it alarms sound with voice prompt, push text notification to your mobile and drives the valve/manipulator to turn gas leak source off.

It is also a fire alarm device with the built-in heat sensor designed to respond when the convected thermal energy of a fire increases the temperature.

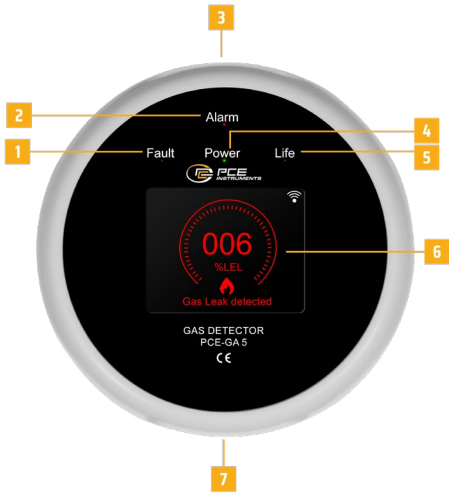
You can get the gas level and temperature via a mobile application from any point of the world, and an Internet connection via a Wi-Fi 802.11 b/g/n(2.4GHz) network is required for operation. TFT color LCD screen displays with date and time, gas level, temperature and life days remained

SPECIFICATIONS

Power supply	Micro USB+5V/1A
Consumption	<200mA
Detecting gas	Natural gas(CH ₄), LPG
Working Environment	Temperature: -10 ... 55°C Humidity: <95%RH (non-condensing)
Sample	Diffusion
Range	0 ... 100%LEL
Alarm setting value	6%LEL
Tolerance	±3%LEL
Response time	≤30 seconds
Heat alarm value	57°C
Alarm volume	≥70dB
Alarm with	Indicator, sound, voice prompt and APP notification push
Valve/manipulator drive output	12V/300mA output for 15 seconds
Warm-up time	180 seconds
Sensor life	5 years
Wi-Fi	2.4GHz IEEE802.11b/g/n
Dimensions	86x86x24.5mm

DESCRIPTION

- 1 - Yellow fault indicator
- 2 - Red alarm indicator
- 3 - Wi-Fi configuration / Clock adjustment / Test / Silence button
- 4 - Green power indicator
- 5 - Yellow life indicator
- 6 - Display screen
- 7 - USB + 5V power port



- 8 - Middle socket is for manipulator
- 9 - Right socket is for valve control
- 10 - Bracket



INDICATORS

Indicator	What you see	What it means
Power	Green	Power is ok
Alarm	Blinking red	Gas leak or heat alarm
Fault	Blinking yellow	Sensor is fault
Life	Blinking yellow	Sensor life is over

APP

Scan the QR code or find “Smart Life” from GooglePlay/APP Store to get the free application for Android or iOS. Upon installation of APP on your phone, the app will guide you through registering, connecting the detector to the internet.

Add your detector

Smartlink(EZ) mode

- » Tap Add Device or “+”, select Security & Sensors from Add Manually, then tap Gas Detector(Wi-Fi). Choose your local Wi-Fi and input password(Only 2.4GHz Wi-Fi network is supported).
- » Power your detector off. Press and hold the button, then power your detector on, don't release until the screen says “Smart Mode, Connecting”.
- » Tap Fast flashing, wait the configuration finishes. Tap the pencil to name your detector, then tap Done.

Soft AP Mode

Please change to Soft AP Mode if the configuration fails in Smartlink Mode.

- » Power your detector off. Press and hold the button, then power your detector on, don't release until the screen says “Smart Mode, Connecting”. Click the button again and the screen says “AP Mode, Connecting”.
- » Tap the top right icon in APP to select “AP Mode”, then tap “Slow flashing”.
- » Tap Confirm > Go to Connect, then choose the Wi-Fi hotspot named “Smartlife-XXXX” in your Wi-Fi list. Go back to your app to wait the Wi-Fi configuration finishes.



Smart Life

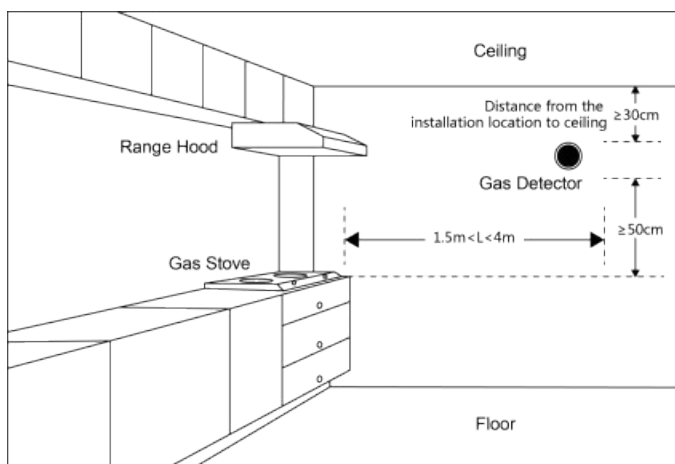
INSTALLATION

Do not install the detector

- » Where the temperature is under 0°C and over +55°C or outdoor
- » Near to exhaust fan, vaporous, chimney hood, smelly places
- » Location of the detector should not be very close to apertures and ventilation channels as air stream may be greater and gas concentration may decrease.

Location

Natural gas that is comprised of methane gas is lighter than air, in case of gas leakage; gas rises towards ceiling and accumulates in areas near ceiling. Therefore, for natural gas, the alarm apparatus shall be located in a position of 30 cm under the ceiling and 1.5-4 meter(s) away from gas supply. LPG that is comprised of mixture of propane and butane is heavier than air. In case of gas leakage, LPG falls down to ground. Therefore, for LPG, the alarm apparatus shall be located in a position of 30 cm above the floor and 1.5-4 meter(s) away from gas supply.



Using screws

Screw the bracket to the ceiling or wall with the included screws. Holding your detector against the bracket and turn it clockwise to fix it in the bracket.

Using adhesive tap

Tear off one side of the double-sides adhesive tap and stick it to the underside of detector, tear off the other side and attach detector to a flat surface.

USAGE

Warm-up

After power on, the detector will warm-up within 180 second and screen says "Waiting" with countdown ticking sound.

Working

The screen displays the working window and clock panel per 1 minute in turn.

1 - Life

- » Days remained
- » Fault is shown at sensor fault

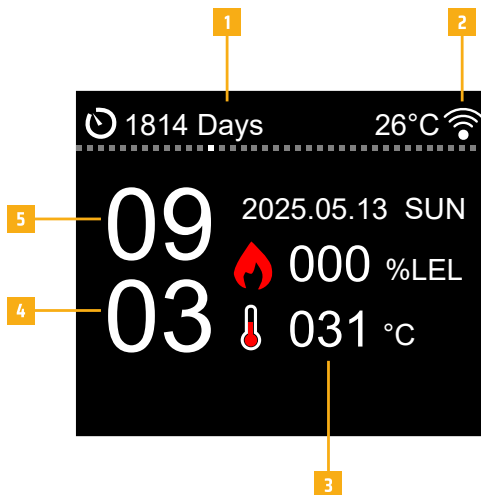
2 - Wi-Fi icon

- » Connected to network with dot.
- » Offline if it is shown in gray.
- » None means Wi-Fi module failure.

3 - Temperature around

4 - Minute

5 - Hour



Gas leak alarm

When a gas leak is detected, the level ring is displayed and **"There is a gas leak. Check now"** is heard.

When gas leak level raises continuously and preset level is reached, the detector alarms sound, the red alarm indicator flashes, you hears **"Emergency. There is a gas leak. Don't use any electrical switches and naked flames. Get out and call for help now"**, a notification **"Gas leak detected"** is pushed to your mobile and valve/manipulator is drove to turn the gas source off.

Heat alarm

When the temperature around detector increases to preset value, the red alarm indicator flashes, the value ring is displayed, **"Heat alarm. Check now"** is heard and a same text notification is pushed to your mobile.

Silence

In case of alarm, click the button or tap the symbol in the APP to mute the alarm sound and the screen says **"Alarm has been hushed"** with the same voice prompt.

Restore to normal from alarm

The alarm is cancelled automatically with clear air and the temperature around detector is lower than alarm setting value.

If sensor is fault

In case of sensor fault, the yellow fault indicator flashes and "Fault" is displayed on the screen.

Testing

Without alarm, click the button or tap PLAY in APP to test the detector. The screen says **"Ready for test"** and you hear **"This is a mere test. We'll alarm a sound. The alarm is loud. The test starts"** The detector starts to test low level gas leak, high level gas leak alarm, heat alarm and valve/manipulator control. When test is finished, the screen says **"Test finished. Please reset valve"**. If everything is OK, **"The test is finished. Everything is OK"** is heard and a same text notification is pushed to your mobile. In case of sensor failure, you hears **"The sensor failed. Check now"** and your mobile get the same text notification.

CLOCK ADJUSTMENT

The date and time are usually updated automatically over the network if your detector is connected to network via Wi-Fi. If **NOT** you can adjust the date and time by the button. Without alarm, press and hold the button until the date and time setting window is displayed. The digit is increased automatically with loop from year, click the button to enter the displaying digit you want and the screen skips to the next digit to be entered. When all date and time digits are entered, all digits are green and the screen says **"Long click to save"**, press and hold the button until you hear the tone. If no operation in 30 seconds, the detector exits the data and time adjustment, all digits have been set are not be saved.

CONSIDERATIONS AND WARNINGS

Vapor of alcohol and similar substances, spray, very intense cigarette smoke, torch gas, cleaning agents and chemical substances with very strong odors, very intense meal and water vapors may cause to alarm to malfunction by misleading the apparatus.

This product is only used to reduce the accident, cannot make sure everything.

Except that use our detector in right way, please pay more attention in your daily life and strengthen safety and security consciousness.

DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose. In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law. For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations. If you have any questions, please contact PCE Instruments.

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