



Gas presence detector, model GPD-1000

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Prior to starting any work, read the operating instructions!  
Keep for later use!

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Declarations of conformity can be found online at [www.wika.com](http://www.wika.com).

# 1. General information

## 1. General information

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- The detection instrument described in the operating instructions has been designed and manufactured using state-of-the-art technology.
- All components are subject to stringent quality and environmental criteria during production. Our management systems are certified to ISO 9001 and ISO 14001.
- These operating instructions contain important information on handling the instrument. Working safely requires that all safety instructions and work instructions are observed.
- Observe the relevant local accident prevention regulations and general safety regulations for the instrument's range of use.
- The operating instructions are part of the product and must be kept in the immediate vicinity of the instrument and readily accessible to skilled personnel at any time.
- Skilled personnel must have carefully read and understood the operating instructions prior to beginning any work.
- The manufacturer's liability is void in the case of any damage caused by using the product contrary to its intended use, non-compliance with these operating instructions, assignment of insufficiently qualified skilled personnel or unauthorised modifications to the instrument.
- The general terms and conditions contained in the sales documentation shall apply.
- Subject to technical modifications.
- Gas presence detector model GPD-1000 should not be used on systems that contain flammable refrigerants such as Propane, Isobutane, etc.
- Factory calibrations/DKD/DAkKS calibrations are carried out in accordance with international standards.
- Further information:
  - Internet address: [www.wika.com/sf6](http://www.wika.com/sf6)
  - Relevant data sheet: SP 62.11
  - Application consultant Tel.: +49 9372 132-0
  - Email address [sf6-sales@wika.com](mailto:sf6-sales@wika.com)

## 2. Technical data

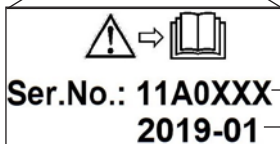
### 2. Technical data

#### Technical data

Area of application	Leakage detection
Detection limit	3 ppm <sub>v</sub>
Battery lifetime	35 hours
Sensitivity	< 3 g/year (0.1 oz/year)
Sensor lifetime	30 hours
Operating temperature	0 ... 50 °C
Warm up time	< 2 seconds
Response time	Instantaneous
Reset time	Instantaneous
Probe length	300 mm

Replacement sensor

Part-No. 14291469



Serial number

Manufacturing date

## 3. Instructions / 4. Features

### 3. Instructions

1. Prior to first usage of the device remove the battery protection film.
2. Press the button to turn the unit on.
3. The LED will flash orange for a short moment to indicate auto-reset, afterwards the unit will begin beeping and flashing green.
4. To reset the unit to the existing level of ambient SF6 or alternative gases, press and release the button. The LED will flash orange briefly to indicate the reset. All levels of SF6 or its alternative gas less than the reset level will be ignored.
5. Unit turns on in the low sensitivity level, which is adequate for most leaks. Press the button twice (double-click like a computer mouse). The LED will fade from red to green and a sweeping sound effect of low to high pitch will be heard. The sensitivity is now set for 3g/year (0.1oz/yr). This mode should only be used for looking for leaks of less than 14g/year (0.5 oz/yr).
6. Double click again to change back to low sensitivity.
7. Move the probe towards a suspected leak at a rate of less than 2 inches (50 mm) per second, no more than ¼ inch (5 mm) away from the suspected source.
8. If a leak exists, the sound will increase in rate and pitch and the LED will start flashing rapidly.
9. To turn the GPD-1000 off, press and hold the button for 3 seconds.

### 4. Features

If the sensor is damaged, a sweeping alarm and a red-green flash will indicate the problem.

A flashing LED during normal operation also reflects the battery level:

- Green: batteries are fresh
- Orange: batteries should be changed

If the batteries are nearly empty, the LED will turn solid red and a two-tone alarm will be noted for 5 seconds, before GPD-1000 will power itself off.

If the unit is left on unattended, it will automatically turn off after about 5 minutes to conserve batteries.

## 5. Battery ... 8. Maintenance

### 5. Battery installation and replacement

1. Turn the power off.
2. Remove the battery cover from the back of the instrument by pressing down while simultaneously sliding the cover back. Be careful not to lose the extra sensor stored in the battery compartment.
3. Insert 2 size 'AA' alkaline batteries.
4. Slide battery cover back into place.

### 6. Sensor

A GPD-1000 sensor will last between 25 and 30 hours of continuous use. A failed or failing sensor will be indicated in one of the following ways:

1. Unstable or erratic operation of the unit and many false alarms, even in pure air.
2. A continuous "siren" sound.



If the sensor is exposed to a similar gas concentration for more than 120 seconds, the device will become accustomed to the new concentration. To prevent or eliminate this effect, restart the unit or place the unit in an uncontaminated environment (no SF<sub>6</sub> or SF<sub>6</sub> alternative gas).

### 7. Sensor replacement

In either case, replacement of the sensor is necessary:

1. Turn the power off.
2. Locate the replacement sensor in the battery compartment.
3. Unscrew (turn counter clockwise) the old sensor from the end of the probe.
4. Screw (turn clockwise) the new sensor into place.

## 8. Maintenance / 9. Return and disposal

### 8. Maintenance

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The GPD-1000 should provide years of service with little maintenance aside from changing batteries and sensors. The case may be cleaned with a shop towel moistened with water and a mild detergent. Do not use solvent of any kind.

### 9. Return and disposal

#### **Strictly observe the following when shipping the instrument:**

All instruments delivered to WIKA must be free from any kind of hazardous substances (acids, bases, solutions, etc.) and must therefore be cleaned before being returned.

When returning the instrument, use the original packaging or a suitable transport packaging. Remove the battery prior to shipment.



Information on returns can be found under the heading “Service” on our local website.

Incorrect disposal can put the environment at risk.

Dispose of instrument components and packaging materials in an environmentally compatible way and in accordance with the country-specific waste disposal regulations.



Do not dispose of with household waste. Ensure a proper disposal in accordance with national regulations.









WIKA subsidiaries worldwide can be found online at [www.wika.com](http://www.wika.com).



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