

English



# ECOM® LSG

#### Intended Use

The ecom-LSG is developed for the detection of leaks in gas installations. The unit shows existing gas concentration on the display and warns by means of an optical and acoustic signal. The sensitivity of the sensor can be adjusted so that even small leaks can be detected. The sensor head is connected to a movable flexible tube, so that even parts of the installation which are difficult to access can be reached.

## Scope of Delivery

- · ecom-LSG
- 2x 1.5 V AAA Batteries

## General safety instructions



#### **WARNING**

#### **Hazard of Injury**

Improper work on gas pipes can result in injuries.

Work on gas pipes may only be carried out by qualified personnel.

When working on gas pipes, observe the applicable safety regulations.



#### CAUTION

#### Damage to the Sensor

Vibrations can damage the sensor head.

Avoid shocks to the sensor head.



#### **CAUTION**

#### **Damage to the Sensor**

Substances such as silicones, halogenated hydrocarbons, lead tetraethyl, sulphur compounds and organic phosphorus compounds lead to partially irreversible sensitivity losses.

Avoid contact with such substances.

#### **NOTICE**

Do not switch on ecom-LSG in air containing gas, as this will lead to inaccurate measured values!

## **Device Description**



1	Flexible Tube	3	Display	5	On/Off
2	Sensor Head	4	HOLD Key	6	LED

#### Initiation

1. Switch on the device.

#### **NOTICE**

Hold the On/Off key down until you hear a signal.

- 2. Wait for the heating-up phase.
- 3. 3-fold beeps indicate operational readiness.
- 4. Display shows the gas concentration as a bar chart.

## NOTICE 1 Bar = no concentration 14 Bars = max. concentration

#### Leak detection

## $\Lambda$

#### **CAUTION**

#### **Damage to the Sensor**

Substances such as silicones, halogenated hydrocarbons, lead tetraethyl, sulphur compounds and organic phosphorus compounds lead to partially irreversible sensitivity losses.

Avoid contact with such substances.

- 1. Slowly move the sensor head past the gas installation to be tested.
- 2. As soon as the ecom-LSG approaches a leak, the measured value display reacts.

#### **NOTICE**

If the first switching threshold is exceeded, the red LED flashes and an acoustic signal sounds. With increasing concentration, the LED flashes at shorter intervals and the signal tone becomes more intense.

3. The highest gas concentration registered so far is represented by a grey bar.

#### **Zero Point**

Deviations of the bargraph display from zero can be set to zero by pressing the HOLD key. The change of the zero point is indicated by flashing of the first bar. If the HOLD key is held down for more than 2 seconds, the original zero point is reset.

#### Switch-off

 Press and hold the ON/OFF key until no more bars are visible on the display.

## **Settings**

#### Sensitivity

- 1. With the machine switched on, press the On/Off key.
- 2. Press the HOLD key.
  - Small bars = low sensitivity
  - Middle bars = medium sensitivity
  - Large bars = high sensitivity

#### **Battery Capacity/Setting Menu**

- 1. With the machine switched on, press the On/Off key twice.
- 2. Battery capacity is displayed.

#### **NOTICE**

If 4 bars are shown on the display, the battery capacity is sufficient for about 1 hour.

- 3. Use the HOLD key to make the following settings:
  - Without lighting/without acoustic signal
  - With lighting/without acoustic signal
  - Without lighting/with acoustic signal
  - With lighting/with acoustic signal
- 4. Press the ON/OFF key to save the selected setting and exit the menu.

## **Power Supply**

The two 1.5 V AAA batteries must be replaced when a grey battery symbol appears in the top left-hand corner of the display. The remaining capacity is 1 hour. If the voltage drops further, the battery symbol turns black and the unit switches off automatically.

#### **Battery Change**

- 1. Open the battery compartment on the back.
- 2. Remove old batteries.
- Insert new batteries.
- 4. Close the battery compartment.

#### **Functional Check**



- 1. Open the test medium bottle.
- 2. Hold the sensor head over the opened test agent bottle.

#### **NOTICE**

The bar indicator should show a clear reaction, otherwise the sensor is defective and must be replaced.

## **Changing the Sensor**

#### **NOTICE**

Switch off the device before replacing the sensor!

- 1. Screw on the sensor head.
- 2. Pull off sensor element.
- 3. Install new sensor element.
- 4. Screw on the sensor head.

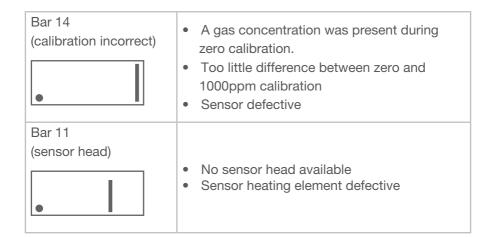
#### **Technical Data**

Display Range	up to 0.5 % methane		
Response Time	< 2 s		
Display	Approx. 20 mm x 7 mm, bar chart		
Heating Period	Approx. 180 s		
Automatic Switch-off	After 30 min.		
Operation Temperature	-5 °C – 40 °C		
Storage Temperature	-25 °C – 40 °C		
Operation Moisture	20 % – 80 % rF		

#### **NOTICE**

Subject to technical changes! (Status 11.2019)

### **FAQ**



#### Maintenance

To ensure the accuracy of your measuring device, we recommend an annual inspection by an authorised ecom partner. In case of heavy use, shorter inspection intervals should be chosen – please contact your ecom partner.

## **Disposal**



- Dispose of used batteries at the designated collection points.
- Dispose of packaging material in an environmentally friendly manner.
- Old devices must be disposed of in an environmentally friendly manner by an authorised centre.

#### **NOTICE**

On request we take back old appliances and dispose of them in an environmentally friendly way.

## Consumables/Spare Parts

#### **NOTICE**

You can find consumables or spare parts in our webshop at www.shop.ecom.de.

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