

14. Application ecom-LSG

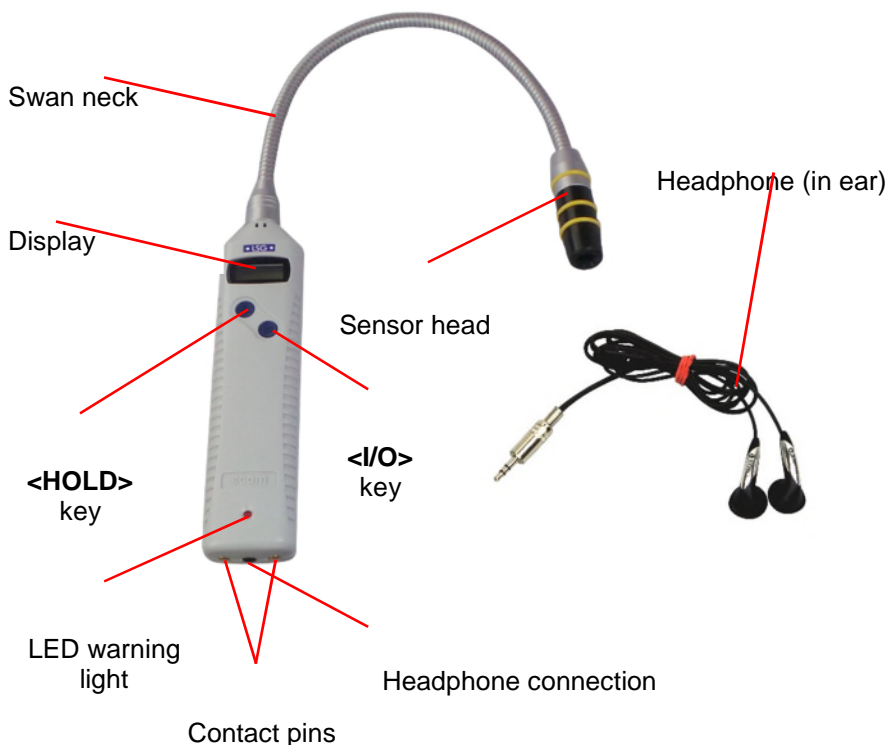
The gas leak detection head **ecom-LSG** is engineered for the quick and reliable detection of untight gas installations. Reverse to leak detection sprays which can rise and re-seal e.g. hemp sealings, the leakage detection with the **ecom-LSG** is made easy and without problems.

The unit shows existing gas concentration on the display and warns with optical and acoustical signals. The sensor sensibility can be adjusted, so that even small leakages can be traced. The robust sensor head is connected with a flexible swan-neck, so that also hardly accessible system parts can be reached.



**Please respect the legal safety instructions
by works at gas pipes!**

15. Instrument Design ecom-LSG



16. Power supply

The **ecom-LSG** is delivered with two batteries 1,5 V AAA (Micro). Alternatively the following battery types can be used:

1,2 V AAA NiCd (Nickel-Cadmium)
or 1,2 V AAA NiMh (Nickel-Metal-Hydride)

Low batteries are indicated by a grey battery symbol at the left side of the display (capacity for approx. 1 h). If the voltage further sinks, the battery symbol will turn to black and the **ecom-LSG** will switch off automatically.



For recharging the batteries you can use the charging station (option).

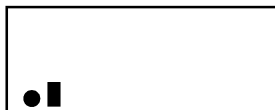
17. Battery Change

Open the battery compartment located on the back of the instrument and exchange the batteries (respect polarity). Always dispose of used batteries in official recycling containers only (e.g. in battery shops).

18. Operation ecom-LSG

Switch on the **ecom-LSG** in gas-free air. Hereto press the **<I/O>** key until a beep is given. The instrument starts a warm-up phase during which the sensor is set to operation temperature (running bar graph on display). After warm-up phase the operability is signalized with 3 beeps and display shows the current gas concentration as bar graph:

-no gas concentration = 1 line
-gas concentration > 0,5 % = 14 lines



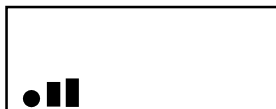
If necessary (strong ambient noise) the headphones (in ear) can be connected to ecom-LSG (headphone connection). Please use only the supplied headphones from ecom.

19. Leak Detection



Substances such as silicone, hydrocarbons, leadtetraethyl, sulfur connections and organic phosphorus connections cause partially irreversible sensitivity losses (sensor poisoning)!

Sweep the sensor head slowly along the gas installation to be checked. As soon as the unit nears a leakage, the display indication reacts and, by exceeding the first threshold (2 lines in display), the red LED blinks.



The blinking red LED together with an acoustical signal (can be switched off) shows an increased concentration of gaseous hydrocarbons. Parallel to the increasing concentration, the signal tone is getting more intensive and the red LED blinks in shorter intervals, so that a leakage can be accurately localized.

The largest concentration registered so far is displayed with a grey bar (dragging announcement). The sensitivity of the sensor (middle sensitivity after switching on) can be adjusted in 3 steps (see Adjustments).

20. Zero Point

Indication drifts from the zero point can be corrected while pressing the **<HOLD>** key (dragging announcement gets erased). pressed longer than 2 seconds. The change of the zero point is indicated by flashing of the first bar. If the **<HOLD>** key is kept pressed longer than 2 seconds, the original zero point gets back (no flashing of the first bar).

21. Adjustments ecom-LSG

If the **<I/O>** key is pressed, first the sensitivity step can be selected with the **<HOLD>** key (small bars = low sensitivity; middle bars = middle sensitivity; large bars = high sensitivity). After repeated pressing of the **<I/O>** key, the battery capacity is indicated. If only 4 bars (grey) are indicated, the capacity is still sufficient for approx. 1 hour. With the help of the **<HOLD>** key the following adjustments can be selected :

- without lighting/without acoustic signal
- with lighting/without acoustic signal
- without lighting/with acoustic signal
- with lighting/with acoustic signal

With the **<I/O>** key the selected adjustment is taken over and the adjustment menu is left.

22. Switch off

Keep the **<I/O>** key pressed until all bars in display are gone.

23. Function control ecom-LSG

Unscrew the cover cap of the testing bottle and hold the sensor head over the opened bottle (see illustration). If the sensor is correct, the bar line display shows a clear reaction. The sensor can be changed at **switched off** instrument (unscrew sensor head - replace sensor element with a new sensor element - mount sensor head).



24. Technical data ecom-LSG

Indication range: up to 0,5 % CH₄

Reaction time: < 2 seconds

Indication: Bar diagram;

Display size approx. 20 x 7 mm

1 bar = no concentration

14 bar = max. concentration



**The ecom-LSG serves for
seeking out leakages!
Accurate concentration
measurements are not possible!**

Power supply:

Batteries 2 x 1,5 V AAA (micro) or

Batteries 2 x 1,2 V AAA NiCd (Nickel-Cadmium) or

Batteries 2 x 1,2 V AAA NiMh (Nickel-Metallhydride)

Warm-up time: approx. 180 sec.

Operation temperature: - 5 to 40 °C

Storage temperature: - 25 to 40 °C

Operation moisture: 20 to 80 % rF



**Changes in air humidity cause
indicator falsifications!**

Dimensions:

- Housing: 155 x 35 x 22 mm

- Swan-neck: 355 mm long

Weight: approx. 200 g

25. Maintenance tip ecom-LSG

To secure the accuracy of your measuring instrument we recommend the annual check by an authorized ecom partner. In the case of strong demand (e.g. permanent several hours of measurement per day, rough conditions etc.) shorter intervals between checks should be selected - please contact your ecom partner. All ecom partners are listed under www.ecom.de.

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