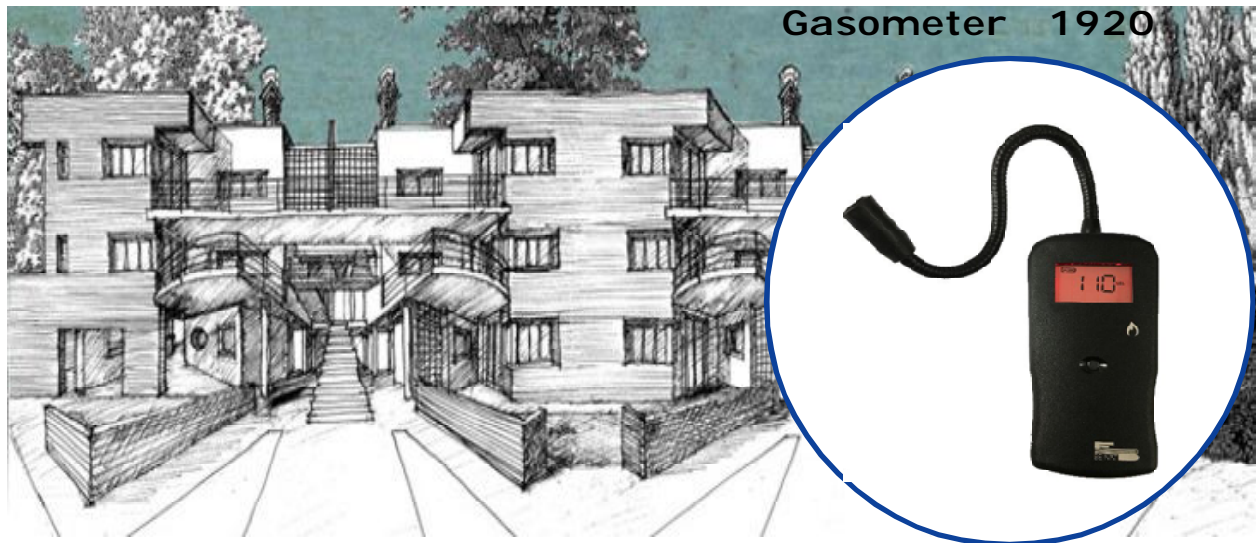


# Portable Gas Concentration Gauge NASE25/K

Rev 2



Since the human being discovered the GAS, he has noticed its usefulness and since then he uses it for cooking, warming, and today in the industrialization.  
*But he has also discovered its dangerousness*

To carry it the common people turn to technicians who need to be assured that their work is free of dangers  
To do this we need a reliable and secure control tool.

The **BEINAT S.r.l.** with its prestige that for over forty years distinguishes it and from the concept "equipment fitness" has created a sophisticated gas detector, which in addition to detect the leak, measures the amount of gas present in the environment.

### Gas concentration Gauge

The technology of this instrument and its precision in detection are due to a catalytic sensor whose response is managed by a microcontroller.

When an **explosive gas** is detected, in addition to emitting an acoustic signal, the display lights up in a flashing red color, and indicates the percentage concentration of in ambient.

Reading from **3% to 100% of LEL.** with a resolution of **1% of LEL.**

The **NASE25/K** reading can also be performed in a low lighted environment as the display is backlit.

The charge and discharge of the battery is controlled by the microprocessor reporting on the display the percentage of charge.

Thank you for choosing the **BEINAT S.r.l.** digital tool, model **NASE25/K**

### Important Note

Read these instructions carefully before use and always keep them within hands reach while using the instrument.

The illustrations and texts shown on the screens in this manual may differ from those actually displayed.

The brand products **BEINAT S.r.l.** comply with European Directives ROHS 2002/95/EC, REACH 1907/2006, BATTERIES AND ACCUMULATORS 2006/66/EC RAEE 2003/96/EC



User guide and  
maintenance

CONFORMITY

EN 50270  
EN 50194

## For your safety

To prevent damage to the product or injury to you and to third persons, before using the device read them carefully and in their entirety the following warnings, related to security

**Keep them safe so they are available for consultation by anyone before using the appliance.**

**Immediately turn off the appliance in the event of malfunctioning.**

In the event you detect smoke or a pungent or unusual odour coming from the appliance or power supply (optional accessory):

Immediately turn off the detector; disconnect the power supply from the mains, if connected to charge the battery, and send to the nearest Service Centre.

**Do not try to dismantle the appliance.**

Contact with internal components of the detector can cause injury. In the event of faults, the product should only be repaired by qualified personnel.

If the device is broken due to a fall or crash, consult the Service Centre for the necessary repairs.

**Avoid contact with liquid crystals.**

In the event the display breaks, pay attention not to injure yourself with the glass fragments and avoid the liquid crystals coming in contact with your skin, eyes or mouth.

To serve you long and satisfaction of your digital equipment, use it and store it keeping in mind the following precautions.

**CHECK** the integrity of the probe after having removed it from the box.

Any use of the detector for purposes other than the intended one is considered improper, and as a result of which **BEINAT S.r.l.** therefore disclaims any responsibility for possible damages caused to people, animals or objects.

**Do not allow it to become wet.** The detector can be seriously damaged as it is not waterproof either when immersed in water or exposed to high levels of humidity.

**Do not drop it.** Heavy knocks on hard surfaces and strong vibrations can damage the appliance.

**Avoid strong magnetic fields.** This detector should not be used or stored near radiation, or intense magnetic fields. Static electricity or magnetic fields generated by appliances such as radio transmitters can interfere with measurements, may damage data recorded, and internal circuits.

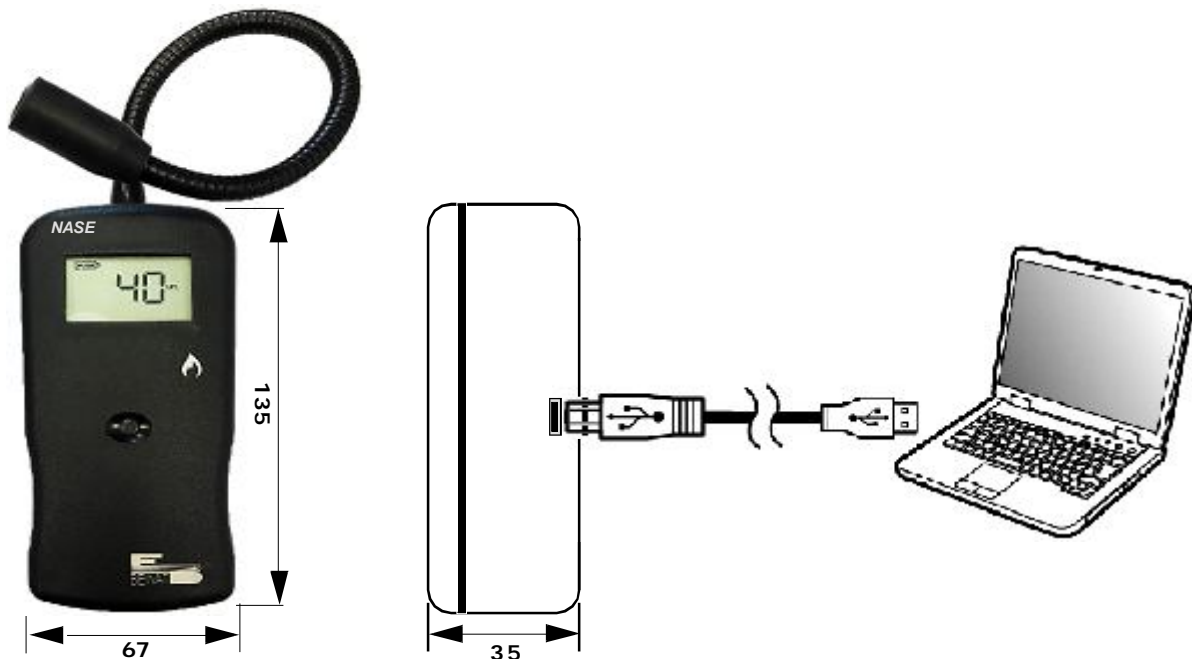
Above a certain temperature (+ 45 ° C about) the monitor becomes black, to make it visible again function you must cool it by placing it in the refrigerator for a few minutes.

**Cleaning** Never clean the device with chemical products. If necessary, wash with a moist cloth.

## Technical specifications

<b>NASE25/K</b> Powered by LiPo battery .....	3,7 V
Power demand during explosive gas detection .....	190 mA
Standby power stand by .....	170 mA
Battery autonomy .....	8 hours approx
Battery charger .....	via PC
Optional battery charger not supplied .....	External 5 VDC 350 mA
Charging time .....	7 hours
Control battery charge and discharge .....	On display

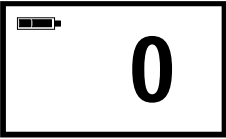
Catalytic type flexible detection sensor .....	Incorporated
Positive Explosion Safety .....	Protected Sensor with Anti-Flame Retina
Measuring range .....	from 3% to 100% of LEL
Resolution .....	1% of LEL
Detector accuracy .....	1% FS
Response time .....	0.5 "
Display .....	backlit LCD
Operating temperature .....	-20 ° C ÷ + 45 ° C
Auto-off function in explosive gas detection mode .....	after 10 minutes
Dimensions and weight .....	67 * 135 * 35mm 70gr





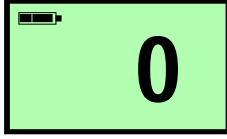
**Display**

Normal condition



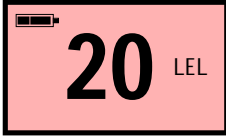
Display not illuminated and in the absence of gas.

Normal Illuminated




Illuminated display and in the absence of gas. To illuminate the display Press the button

Alarm condition



Red illuminated display represents the concentration of gas expressed in LEL. With increasing LEL increases the frequency of acoustic signal.

Fault condition



The yellow illuminated display with the word FAU represents a sensor fault

**Gauge GAS function**

Press the button to turn on or turn off the instrument, press and hold for 5 seconds..

**Explosive GAS detection**

When you turn on the appliance you will see a **COUNT DOWN** ⏱ starts on the display lasting about 30 seconds (pre-heating). When complete, the instrument is ready for use.

Hold the detector in your hand at an average height from the ground to detect any gas dispersed in air or bring the tip of the *flexible* antenna near the probable sources of leak which:

Pipes - Couplings - Joints - Solenoid valves - Niches, etc.

If the instrument detects a leak, the percentage of GAS **LEL** appears on the display, along with an intermittent sound that is more or less frequent depending on the amount detected. Together with the sound, the display lights RED color.

**Backlight**

Pressing the button turns on the backlight in green color with a **duration of 5 seconds**.

**Display of the battery charge status**

On display it shows the battery symbol. When the battery is **charged** the symbol is all **black**, discharging becomes **white**, when it flashes is discharged

**Note:** The device will have an auto shut down after 10 minutes of inactivity (no button pressure and no gas detection)).

**If the appliance does not turn on.**

Check the battery is charged. If not, charge or replace it.

Note: With low battery, gas measurement might not be reliable.

**Gas is not being detected.**

Check that the capsule is working. If burnt, **"FAU"** appears on the display.

In the event other problems arise, directly contact a specialist and/or authorised **technician** or your **BEINAT S.r.l.** dealer.

**Conversion Table " LEL-ppm-mg for m<sup>3</sup>**

"Methane (LEL=5.0% v/v)"			"LPG (LEL=1.8% v/v)"	
LEL%	ppm	mg/m3	ppm	mg/m3
0	0	0	0	0
1	500	358	180	468
2	1.000	716	360	936
3	1.500	1.074	540	1.403
4	2.000	1.433	720	1.871
5	2.500	1.791	900	2.339
6	3.000	2.149	1.080	2.807
7	3.500	2.507	1.260	3.275
8	4.000	2.865	1.440	3.742
9	4.500	3.223	1.620	4.210
10	5.000	3.582	1.800	4.678
11	5.500	3.940	1.980	5.146
12	6.000	4.298	2.160	5.614
13	6.500	4.656	2.340	6.081
14	7.000	5.014	2.520	6.549
15	7.500	5.372	2.700	7.017
16	8.000	5.731	2.880	7.485
17	8.500	6.089	3.060	7.953
18	9.000	6.447	3.240	8.421
19	9.500	6.805	3.420	8.888
20	10.000	7.163	3.600	9.356
21	10.500	7.521	3.780	9.824
22	11.000	7.880	3.960	10.292
23	11.500	8.238	4.140	10.760
24	12.000	8.596	4.320	11.227
25	12.500	8.954	4.500	11.695

**INSURANCE.** This device is insured by the SOCIETÀ REALE MUTUA for the PRODUCT'S GENERAL LIABILITY up to a maximum of 1,500,000.00 EURO against damages caused by the device in case of failures in functioning.

**WARRANTY.** The warranty term is 3 years from manufacturing date, in agreement with the following conditions. The components acknowledged as faulty will be replaced free of charge, excluding the replacement of plastic or aluminium cases, bags, packing, batteries and technical reports.

The device must arrive free of shipment charges to **BEINAT S.r.l.**

Defects caused by unauthorized personnel tampering, incorrect installation and negligence resulting from phenomena outside normal functioning shall be excluded from the warranty.

**BEINAT S.r.l.** is not liable for possible damage, direct or indirect, to people, animals, or things; from product faults and from its enforced suspension of use.



**DISPOSAL OF OLD ELECTRICAL & ELECTRONIC EQUIPMENT.**

This symbol on the product or its packaging indicates that this product shall not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment, such as for example:

- sales points, in case you buy a new and similar product
- local collection points (waste collection center, local recycling center, etc.)

By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

**Attention:** in some countries of the European Union, the product is not included in the field of application of the National Law that applies the European Directive 2002/96/EC and therefore these countries have no obligation to carry out a separate collection at the "end of life" of the product.



**Concentration gauge NASE25/K** *Lo styling è della b & b design*

Stamp and signature of the dealer

Date of purchase: .....

Serial number: .....

La Beinat S.r.l. following the purpose of improving its products, reserves the right to change the technical, aesthetic and functional characteristics at any time and without giving any notice.

**BEINAT S.r.l.**  
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