JL269 Portable Gas Detector User's Manual

1. Description

JL269 gas detector for industrial use has a high performance and wide detecting range. It can be used to detect methane, natural gases, propane, LPG, Hydrogen and other combustible gases and can help you to find the gas leaking sources easily

2. Features

Sensor doesn't need to be calibrated
Quick response to combustible gas leakage
Additional Long and flexible gooseneck tube
Adjustable sensitivity
30 Level light /Tricolor show
Low battery alarming indication
The sensor fault self detection
High concentration protect

3. Specifications

Detecting Gas: Natural gas, LPG
Sensitivity: Better than 50ppm
Detection range:

Alarm LED / Scale No.	1. Green LED (ppm)	2. Yellow LED (ppm)	3. Red LED (ppm)
1	500	1000	2000
2	500	1500	3000
3	500	2000	5000
4	1000	3000	5000
5	1000	5000	10000
6	5000	10000	20000
7	5000	20000	30000
8	10000	30000	50000
9	10000	50000	100000
10	10000	100000	200000

Environment: Temperature. -40℃～70℃ Humidity: ≤95% RH non-condensing
Warm-up time: <20S
Response time: <10S
Indication: 30 levels of LED indication:
Green: low concentration
Yellow: middle concentration

Red: high concentration

Alarming levels: The shorter the buzzer sound interval, the higher the concentration

Battery: 3.6/1600mAh Ni-H chargeable battery

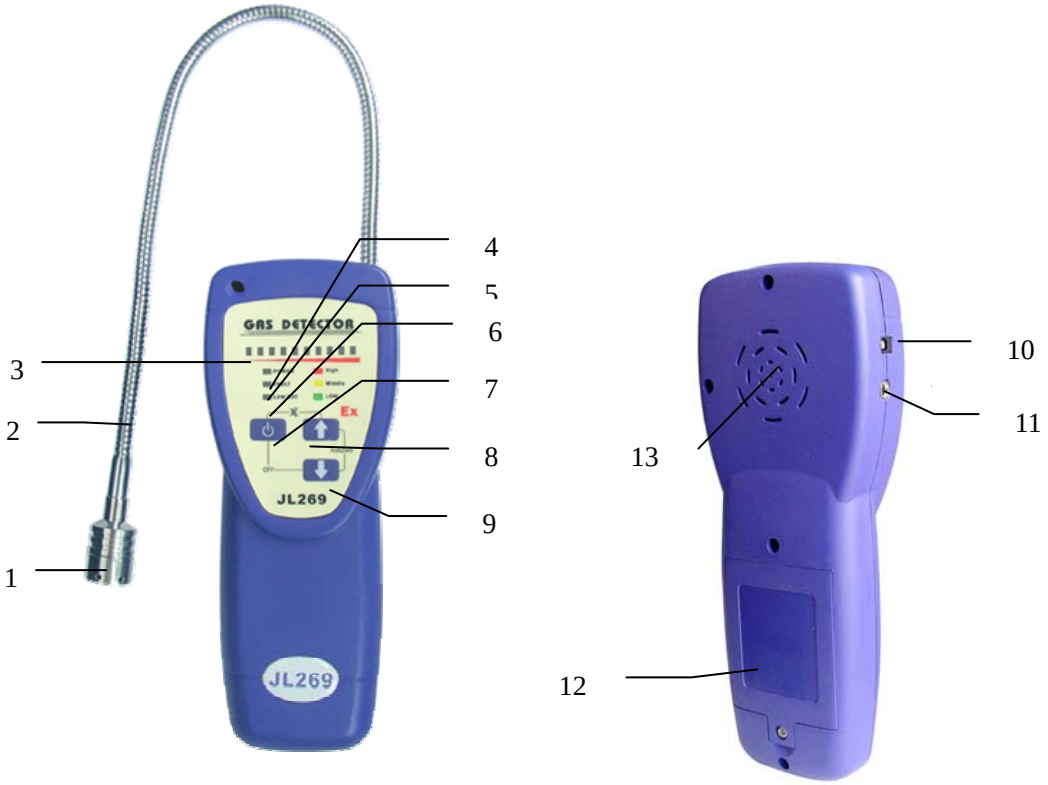
Charge time: 4h to 6h

Using time of the battery: >8h

Weight: 310g

Dimensions: 170mm×62mm×26mm

4. Structure and Functions



1	Gas sensor	7	Turn-on key
2	Flexible gooseneck	8	scale Up”+”
3	Concentration LED	9	scale down “-”
4	Power LED	10	Jack of charger
5	Sensor fault LED	11	Jack of earphone (no earphone included）
6	Full scale LED	12	Battery
		13	Buzzer

5. Operation instruction

5.1 Turn on the detector

Press and hold “ ” for about 1 second, Power LED lights, and the device begins to self-test: the 10 LED will light in turns. Warm-up time is 20 seconds. When warm-up finish, the green power LED lights and all the alarm LED off, the detector enter detecting status.

5.2 Detecting

Put the sensor into the gas environment and the LED and sound frequency will show the gas concentration of the environment. With concentration increases, first the green LED lights and the buzzer frequency increases. When the concentration exceeds the first 10 levels detection range, the alarming LED turns yellow, and then turns red. At the same time, the sound frequency interval will turn higher. When all LED turn red, it means the concentration reaches the highest of the detection range. At this point, the “ OL” LED will light.

5.3 Fault

If there is something wrong with the gas sensor, the detector can’t work. At this point, the“ FAULT” lights and all concentration LED off. At the same time, the buzzer gives sound of “Didi----Didi---”.

5.4 Keyboard operation

5.4.1 Silence

When alarming, press both “ ” and “ ”, the audible alarm is off. When press them again, the audible alarm is on.

5.4.2. Zero adjustment

If the detector indicates small concentration and you want the present level as zero point, press both “ ” and “ ”, then the detector accept the present level as zero.

5.5.3 Scale up

When all the red LED light, it shows the present gas concentration is above the presetting scale, then press “ ” continuously (continuing press operation acceptable) to choose larger scale; when you press and release “ ”, the green alarm LED will light showing the present scale number (the quantity of the green LED indicates the corresponding scale, see table 1 for the details).

Note: larger scale, less sensitivity. So the larger scale is not suitable to low gas concentration.

5.5.4 Scale down

When the gas concentration around is not very high, you can choose lower scale to detect. Then you can press " " continuously (continuing press operation acceptable) to choose smaller scale.. Note: smaller scale, higher sensitivity.

5.5.5 Turn-off

When the detector is on, press both " " and " ", the detector turns off.

6. Battery and charging

This detector adopts 3.6/1600mAh chargeable battery as power. It can work for more than 8 hours continuously.

6.1 Battery voltage indication

When the detector is on, you can test the voltage of the battery. When the voltage is low, the " POWER" LED turns red, which means low voltage and it needs charging. In the status of low voltage, the detector can continue to work for about 30 minutes. When the voltage is seriously low, the power LED begins to flicker about 2 seconds, and then the detector turns off. At this point, you'd better not turn on the detector frequently. Otherwise the detector will be destroyed. Besides, if the detector can't be turned on or abnormal after turning on, normally it is due to serious low voltage. Please charge it at time.

6.2 Charge

We kindly suggest you charge the battery when the detector is off, because if on, the battery will not be charged full. When charging, put the plug of the charger into the AC220V or AC110V power socket. Then the LED of the charger turns red. The charging begins. Fast charging time is about 3 to 4 hours (when it's full, the LED turns green) and then you can use it normally. We suggest you charge it for 4 to 6 hours.

Note: Please don't charge the battery at the detecting spot so as to avoid fire or explosion due to the spark when pulling out the plug. Please don't charge it when the detector is on so as to ensure the charging speed. When charging, frequent turning-on and turning-off are not allowed, otherwise the detector will be destroyed.

7. Troubleshooting Guide

Fault	Possible reasons	Solution
Turning off immediately after turning on	Seriously low voltage	Charge it promptly
No response to the gas	Warm-up doesn't end	Wait till warm-up ends
	Sensor fault	Replace the sensor

8. Fittings

Detector 1pc Charger 1pc Manual 1pc