



**JB-FT1000**  
**Laser gas detector with pump**

**User manual**



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# 1. Introduction

## 1.1 After opening the security box

Make sure the following accessories are present:

- JB-FT1000 Gas detector with pump
- Charger
- Hand probe
- Connected hose
- Spare filter element
- User manual
- Quality certificate

\*The safe protective box has a function dustproof and waterproof, they should be stored in a protective box when the detector is not in use.

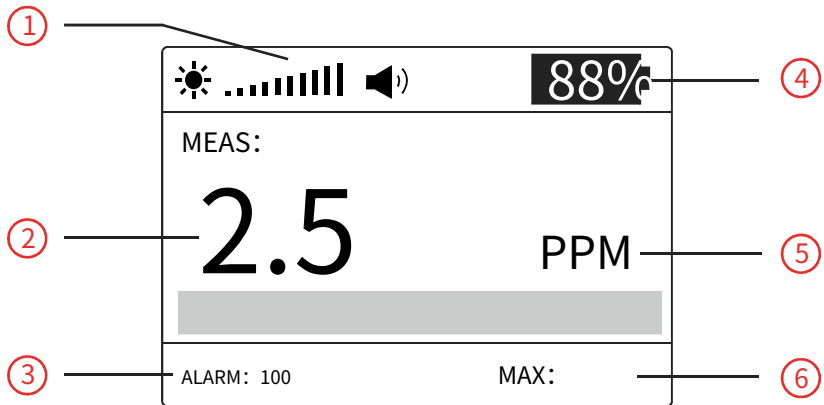
\*If you find any accessories damaged or missing, please contact us immediately.

## 1.2 Technical parameters

Detected gas:	Methane (CH <sub>4</sub> )
Measurement range:	0~100%VOL
Sensitivity:	1ppm
Response time:	<0.1s
Level of security:	IP66
Classification explosion-proof:	Ex ib IICT3Gb
Units:	ppm, %lel, %vol
Battery life:	≥ 10hours
Display and alarm:	LCD display + audible alarm
Power supply:	11.1V 3250mAh lithium battery
Working temperature:	-20°C~ 50°C
Mass:	1000g
Dimensions:	155mm*130mm*60mm

## 2. METHOD OF OPERATION


1. Press and hold the power button, the detector will turn on.
2. If the detector cannot be turned on by pressing the power button, it means the battery needs to be replaced or charged.
3. After power on, enter the detection interface and the following information will be displayed on the screen:

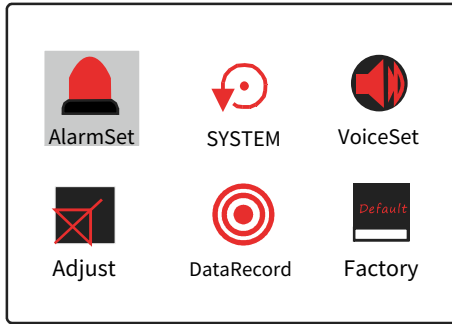


- |                          |                       |
|--------------------------|-----------------------|
| ① Received intensity     | ② Concentration value |
| ③ lights Alarm threshold | ④ Battery             |
| ⑤ Unit of concentration  | ⑥ Max value           |






# 3. Parameter settings

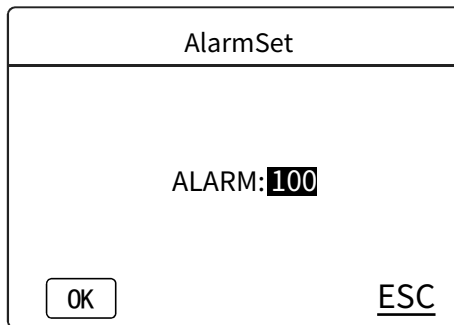
## 3.1 Interface menu

Press the button  to enter the interface menu. Interface menu looks like this:



### 3.1.1 Alarm settings

After selecting the alarm setting, press the button,  to go to adjust the alarm value; press the button,  To select the value and press,   to change the alarm threshold; press the button  to leave the page.



## 3.2 System settings

After selecting "System Settings", press the button ◀ to enter system settings; The submenu includes settings settings, mode settings, response speed, unit settings and language settings.

SYSTEM	
OffsetValue:	0
DistanceSet:	absolut
Sensitivity:	High
Unit:	VOL
Language:	English
<input type="button" value="OK"/>	<u>ESC</u>

### 3.2.1 Operating mode settings

Using buttons △ ▽ select the mode settings icon and press button to enter mode settings.




The mode setting includes standard mode and sensitive mode. [1] MODE: relative

Detector in relative mode, the displayed value eliminates the current concentration of methane in the air.




[2]MODE: ruthless

Detector in absolute mode, the displayed value is the current concentration of methane in the air.




### 3.2.2 Reaction speed

Use the buttons   to change the reaction rate. Press button  to confirm changes and return to the main menu. The distance setting can be set to "fast", "medium" and "slow", which corresponds to the device's response speed from fast to slow.

### 3.2.3 Unit settings

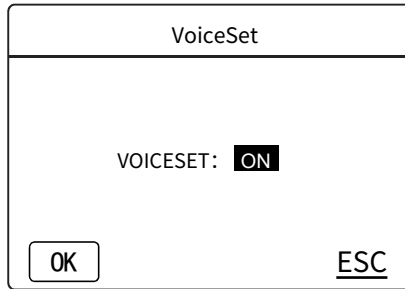
Use the buttons   to change device settings. Press the button  to commit changes and return to main menu. The unit setting can be set to "ppm", "%LEL" or "%VOL".

### 3.2.4 Language settings

Change the language setting using the buttons   Press the button  to confirm changes and return to the main menu. The language can be set to "Chinese" or "English".



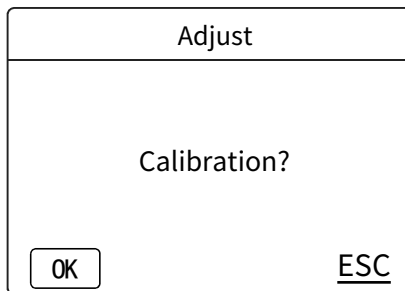
### 3.3 Sound settings



In the main menu interface, move the cursor with buttons  $\triangle$   $\nabla$  to select the sound settings icon and Press the button  $\triangleleft$  to go to sound settings.


Use the buttons  $\nabla$   $\triangle$  to turn on or off  
Press the button  $\triangleright$  to return to the menu

### 3.4 Calibration



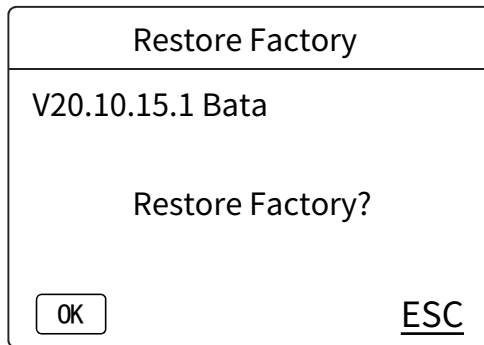
Press the button  $\triangleright$  to go to calibration settings, a then press the button  $\triangleright$  to configure the system. Inject calibration gas into the device and when the device emits an alarm, calibration is complete.




### 3.5 Historical data

Press the button  to go to the data icon historical.

Historical data stores records of detection data from last 30 times.

### 3.6 Reset



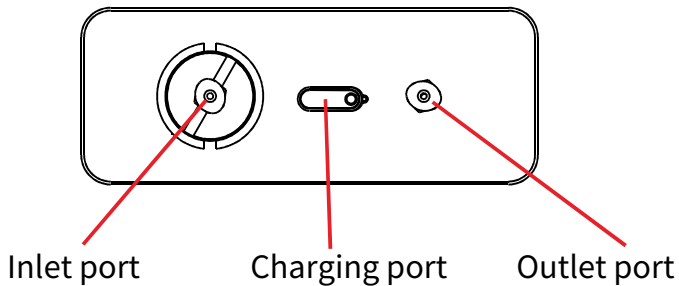
Press the button  to restore the settings factory. Press the button , to finish; or press the button  to restore factory settings and return to the main menu.

## 4. Use of equipment

Connect one end of the hose with the filter element to the inlet port and the other end to the hand probe.

(The installation method for a bell probe or Z probe is the same.)

Bell probe as an optional accessory, suitable for manholes. Z-type probe as an optional accessory, suitable for underground applications.



The laser detector of gas sucked in by the pump has no other operating mode and is ready for use.

## 5. Repair and maintenance

### 5.1 Troubleshooting

JB-FT1000 has a self-test function. When an error occurs, an error alarm will appear on the screen. Common errors and their solutions are listed below.

[1] Temperature control error

1. Turn off the device and bring it to room temperature for 1 hour;
2. If the fault still occurs, please contact our service.

[2] For other failures not listed, please contact our after-sales department

### 5.2 Routine Maintenance

To keep the equipment in good condition, please follow the following routine maintenance recommendations.

Replacing the filter element	Once every six months
Landing	End of each use

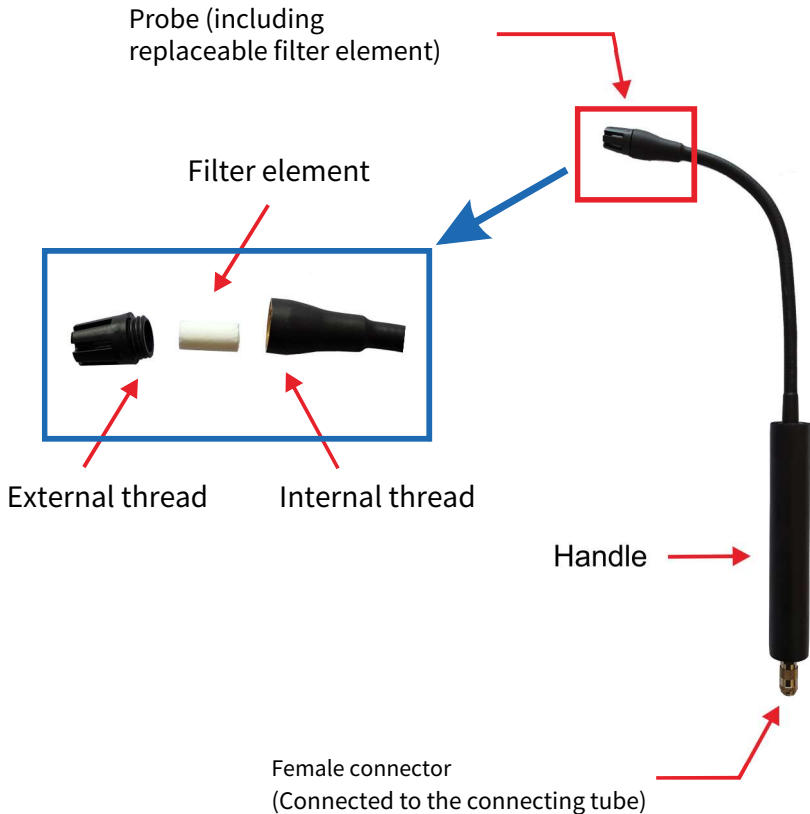
### 5.3 After-sales service

JB-FT1000 is updated and maintained throughout its service life, if there is any problem during use, please contact our company.

## 6. Attachments

### Attachment 1

### Hand probe



**Note:**

The probe is threaded and can be opened to replace the filter element.

## Attachment 2

## Cart



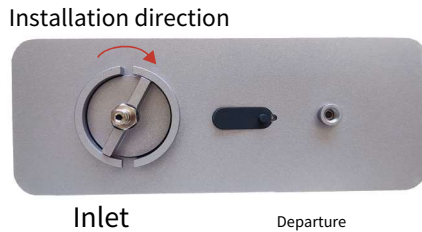
Note: The detector is equipped with an air suction pump. When the small cart is pushed to detect a gas pipeline leak, the operation of the air suction pump will transfer the leaking gas from the gas collection blanket to the filter element to the detector. Detection will be completed in the detector and the results will be displayed on the screen.

## Attachment 3

## Filter element



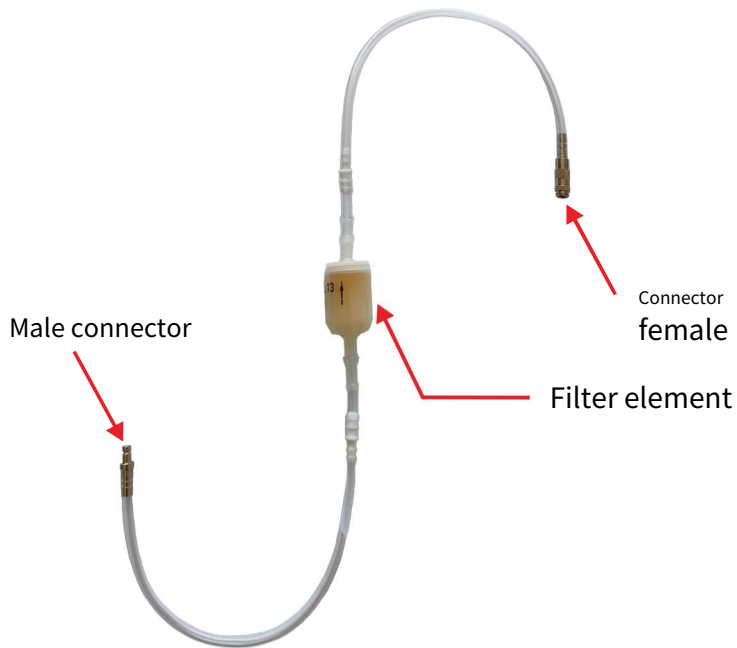
### Installation method:



Note: When installing, place the filter element into the slot on the cutout side and rotate it clockwise to the position shown in the figure; When replacing, turn in the direction counterclockwise to remove it from the cutout.

## Attachment 4

## Connecting pipe



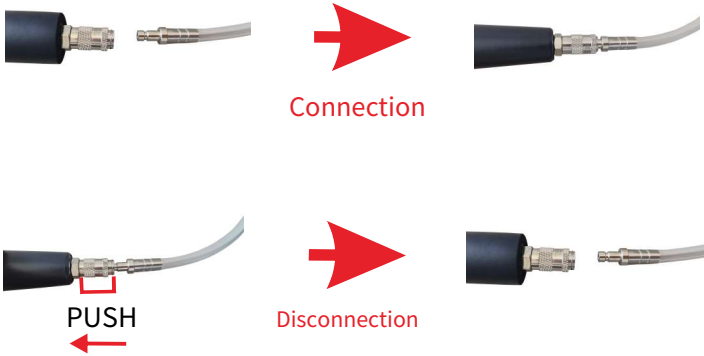
Note: The female connector is connected to the air inlet of the gas detector, the male connector is connected to the probe rod.



## Attachment 5

## Connector installation

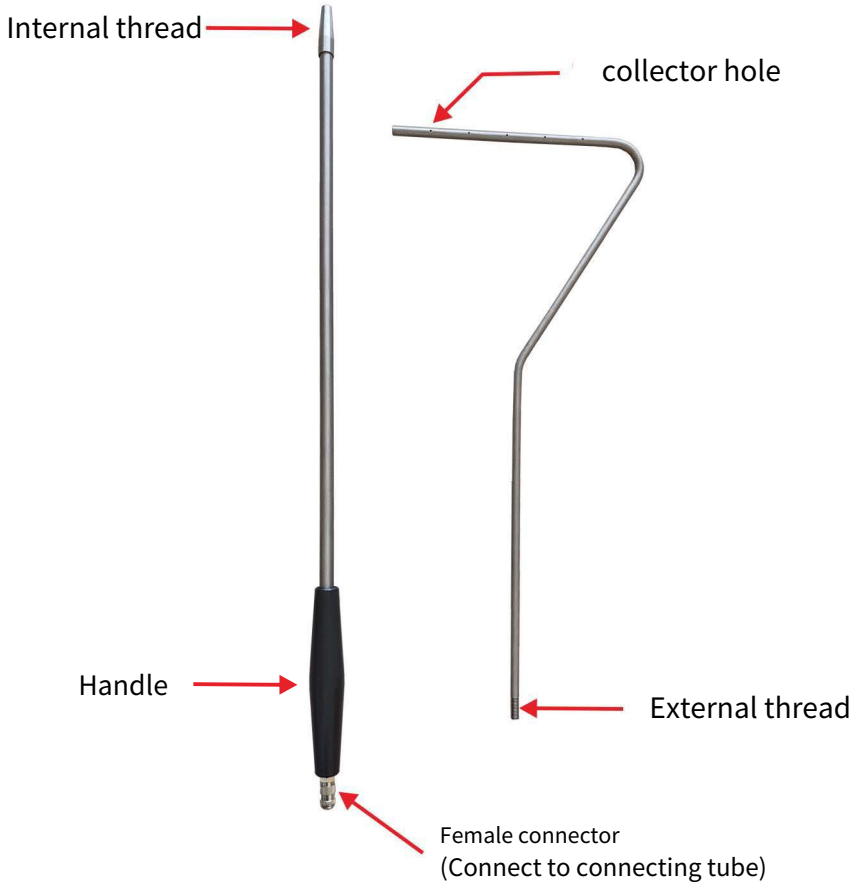
Connector installation method:



Note: The connector installation method is the same.

## Attachment 6

## Z-shaped probe rod



Note: When installing, connect the threaded ends of the connection together.

## Attachment 7

## Bell-shaped probe rod



Note: When installing, connect the threaded ends of the connection together.





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