Brief Operation Manual

SNE380

Portable Multi-gas Detector

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1. Detector Operation

1.1. Key Description

The detector has three operation keys as shown in the figure below, evenly distributed directly below the display screen. On different display interfaces, the LCD provides corresponding prompt navigation for the functions of available operation keys at the bottom of the screen.

Key Layout Diagram

There are two types of key response operations：
Short press: Press the key or press and release the key.
Long press: Press and hold the key for approximately 2 seconds or more.

1.2. Gas Detection

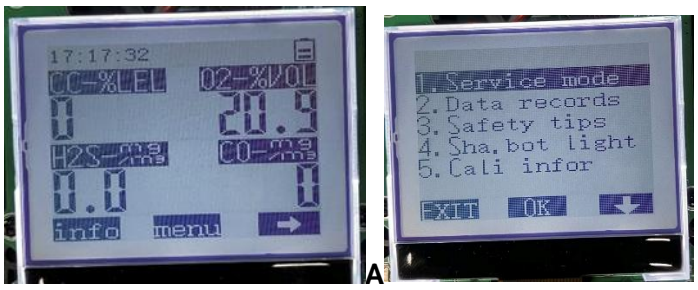
After power-on, the main interface displays the real-time concentration of each detected gas by default. It is recommended to power on the detector in clean air. If the target gas to be detected is not present in clean air after power-on, the gas concentration should read 0. Specifically, oxygen (O_2) should read 20.9% VOL, and carbon monoxide (CO) should read approximately 0 ppm. The gas detection interface is shown in the figure below (standard four-gas configuration as an example)：

Main Interface

2. Common Function Window Operations

2.1、 Main Menu

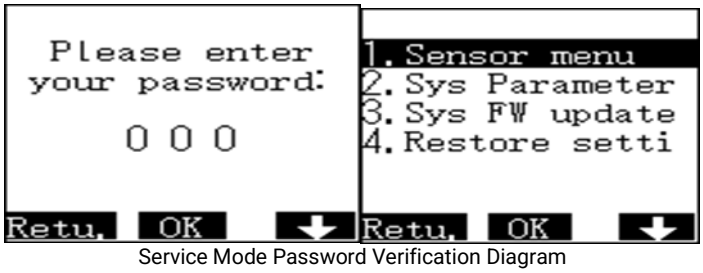
Long press the 菜单key on the main interface to enter the main menu window; use ↓ to switch between options; press the确定key to enter the corresponding option function. As shown in the figure below：



Main Menu Entry Diagram

2.2、 Service Mode

In the main menu window, select "Service Mode," press the ENTER key, and enter the password. The default password is "000." After password verification, you will enter the detector's critical parameter settings and operations. These operations may affect the detector's related functions and performance. Please operate with caution! As shown in the figure below：



Service Mode Password Verification Diagram

2.3、 Alarm Point Setting

Select "Alarm Point Setting" to configure the alarm point gas, alarm point type, and alarm point settings. Press ENTER to save the settings; a prompt will indicate "Alarm Point Setting Successful." As shown in the figure below.

Note: After configuring the alarm point, if the user does not press the CONFIRM button to confirm, or if there is no operation within 30 seconds and the device returns to the main interface, the detector will not save the user-defined alarm value. As shown in the figure below：

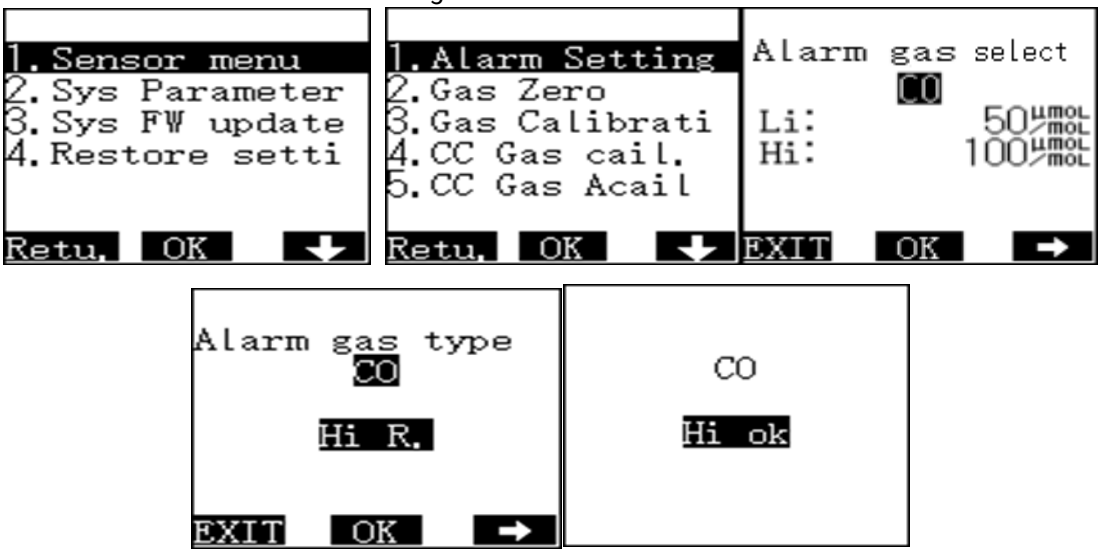


Diagram of Alarm Point Setting Procedure

2.4、 Sensor Zero Calibration

Enter the Sensor menu, select "Sensor Zero Calibration," choose the sensor to be zero-calibrated from the sensor list. After pressing the CONFIRM button, the detector will automatically execute the zero calibration operation. The process takes approximately 10 seconds. Manual cancellation is available before the zero calibration is completed. As shown in the figure below：

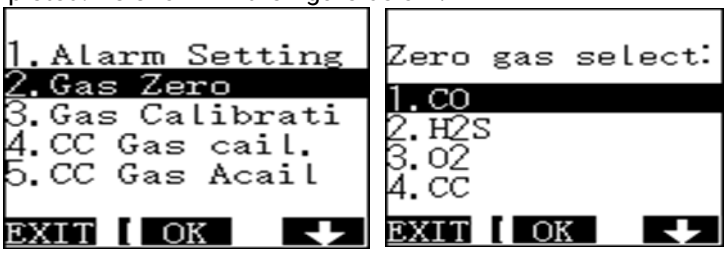


Diagram of Sensor Zero Calibration Procedure

2.5、 Sensor Calibration

Enter the Sensor menu, select "Sensor Calibration," and set the calibration gas concentration value. After confirming the calibration value, enter the calibration interface. Wait until the displayed value stabilizes after applying gas, then press the **START** button to begin automatic calibration. After approximately 10 seconds, the calibration result will be displayed. Calibration can be cancelled before the result prompt appears. As shown in the figure below：

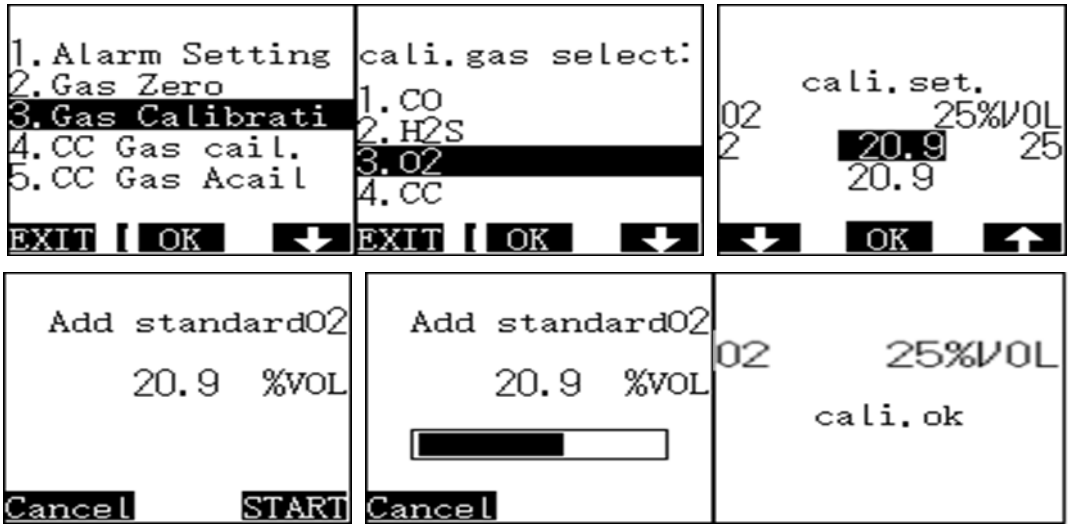


Diagram of Sensor Calibration Procedure

Note：

1) For calibration, please use the randomly configured T-type calibration hose. Connect one end to the detector's air inlet and the other end to the calibration gas. Keep the middle section of the hose suspended in air. Ensure the calibration gas flow rate is maintained at 500~800 ml/min (must exceed 500 ml/min).
2) If you have purchased a diffusion-type detector, you must replace the decorative cover with the randomly configured calibration cover before calibration. After calibration is complete, be sure to replace the calibration cover back with the decorative cover to avoid affecting the detector's calibration accuracy and performance. See the figure below:

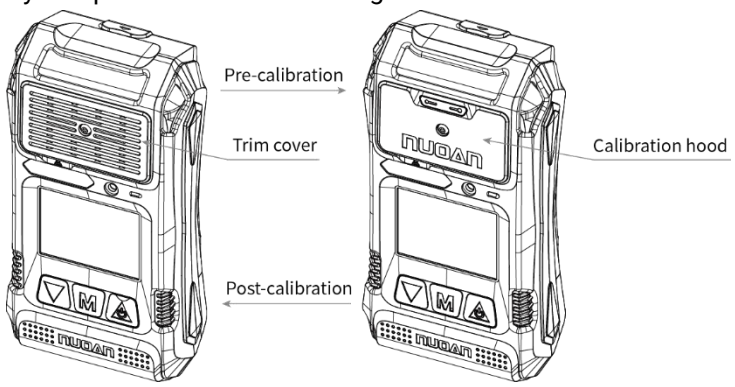


Diagram: Decorative Cover / Calibration Cover Replacement Procedure (Before & After Sensor Calibration)

3. Troubleshooting Common Faults

No.	Fault Phenomenon	Cause and Solution
1	Cannot power on	Battery voltage too low. Please charge immediately.
		Circuit malfunction. Please contact the manufacturer for repair.
2	No charging indicator	Poor contact between charger plug and instrument charging port. Please reinsert.
		Poor contact between charger and power outlet. Please reinsert.
3	Slow response to gas concentration	Calibration gas flow rate too low. Please operate according to calibration requirements.
		Calibration tool pipeline too long or highly adsorptive. Teflon tubing is recommended.
		Sensor damaged. Send to manufacturer for repair.
4	Large deviation in detector reading	Change in sensor sensitivity. Please recalibrate.
		Inconsistent calibration gas. Please recalibrate according to
5	No response to operation	Detector in warm-up period. Wait for warm-up to complete.
		System freeze. Please contact the manufacturer for repair.

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Version: V1.2.3

Compilation Date: April 1, 2022