




User Manual- YT-1200H-S4

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Keys Operation:

	<p>ON/OFF: long press for 3s to turn on/off the device. In detection mode, short press to check battery power, and press again to go back to detection mode. In parameter setting mode, short press to confirm or save settings.</p>
	<p>UP: in detection mode, long press the UP button to enter into menu, and in parameter setting mode, short press this button to move to upper item.</p>
	<p>DOWN: in detection mode, long press to shift the gas concentration unit quickly, but it is restricted to PPM and mg/m3. In parameter setting mode, short press it to go back to move to next item.</p>

(Note: The long press function only work in detection interface. When you change or reset any data, please remember to click “ON/OFF” button to confirm and save the settings)

Power On

Press the “ON/OFF” for three seconds, the detector will be turned on. The screen displays the following interface successively: Brand and Logo, main parameter interface, initialing countdown. The countdown would be 30~60 seconds, which is to make sure that the sensors are fully activated. After 30 seconds, the device enter normal detection mode.

Zero Calibration

Zero calibration must be done in clean air. Zero calibration is needed when there is zero shift happens.

Put the detector in clean air for 3-5 minutes, under the detection mode, press the “UP” and “DOWN” buttons at the same time for three seconds, the data of all channels will reset to zero automatically.

Note: Zero calibration of oxygen detector, nitrogen detector and carbon dioxide detector (target gases are component of the air), the data will be defaults to 20.9%VOL (O2), 79.1%VOL (N2), 400ppm (CO2). Do not do the zero calibration in not clean air or when there is no zero shift happens.

Process of Over-range incorrect operation

Users should avoid using gases which exceed the measure range to impact the sensor, because it will affect the lifespan and sensitivity of the sensor, even, "poison" the sensor. If there is any over-range incorrect operation makes the detector displaying an concentration at a large reading, the remedy is to take the device out of the environment immediately and put it in clean air for over half an hour, and then observe the reading, if it keeps going down, then wait until the reading back to zero before powering it off, and do the zero point calibration next time before using it. If the reading maintained at full scale, user should send the device back to manufacturer or agent for repair or replacing the sensor.



Note

- *If detector is used for the gas cylinder detection, considering the high pressure in the cylinder, please use a pressure regulator, and keep it as the below data:
Flow rate: 800mL~1L/minute
Pressure: 0.1MPa or 1Bar
- * Working temperature: -20~50 degree C
- * Working humidity: 0-95%RH, no condensing
- * Please put the detector in clean air for about 5 minutes and waiting for the data falling down to normal before turning it off after measurement.

Operation Interface

When the detector is turned on completely, the device will enter the detecting mode. The detected gases will be showed on the screen (for example: O₂, CO, H₂S, EX). Time and battery power will be showed at the top right. If measured 4 gases, the time and battery power information can be checked by short press the ON/OFF button.

Alarm Status

When the detected gas concentration is higher than the low alarm value, the low alarm is auto on, the relative gas value will be highlighted, and the alarm sound will be on, blue light will be flickered.

When the detected gas concentration is high than the high alarm value, the high alarm is auto on, the relative gas value will be highlighted, and the alarm sound will be on, red light will be flickered.

When there is low alarm and high alarm at the same time, both relative gas values will be highlighted, and high alarm will take the priority.

Low Battery Alarm

When the battery is low, there will be sound, light low battery alarm. There will be sound and light every 5 seconds to remind the user to charge the device in time. When the battery is used up, the device will be turned off automatically.

Alarm Setting

In detection model, long press “UP” button to enter the menu, choose the “Alarm point”, and start to set the alarm value.

There are four options under the alarm setting mode. The first option is the “channel”, there will be 4 channels for 4 in 1 multi gas detector.

Channel choose: press “ON/OFF” button, the cursor will be at the channel number, then press the “UP” and “DOWN” button to choose the channel, press the “ON/OFF” button to confirm.

Alarm setting: The second option is the low alarm value, and the third option is the high alarm value. Choose the option that you want to change, then press “ON/OFF” to confirm, then press the “UP” and “DOWN” to increase or decrease the value, press the “ON/OFF” to move cursor. After the setting is done, press “ON/OFF” button to save the settings.

Settings

In detection model, long press “UP” button to enter the menu, choose the “INST Setup”, and start to set the detector.

There are three options: Language, gray level, LCD backlight.

Language: Chinese and English are available.

Calibration

Note: Calibration needs to be done by professionals and with necessary accessories and standard gas. Password is needed. (If you need password, please contact the manufacturer to get it)

In detection mode, long press the “UP” button, choose the CALIBRATION. There are five options in the calibration interface:

1. Channel option: you need to choose the right channel/gas type before calibration, there will be 4 channels for the 4 gases multi gas detector.
2. Zero calibration option: put the detector in clean air for 3-5 min, then press “ON/OFF” button, wait for the value become stable, press “ON/OFF” again, the zero calibration is finished. You can also do the zero calibration in the detection mode, press the “UP” and “DOWN” buttons for three seconds, the data of all channels will reset to zero automatically.

3. Target point calibration:

Prepare the standard gas before starting the target point calibration. Choose standard gas, press ON/OFF button to enter.

There will show “please input standard gas” at the top of the LCD, and at the bottom there are “gas type”, calibrate value, “VA” (current concentration), “AD”, and “ESC or SET”. Change the target concentration to the standard gas concentration by press “UP” and “DOWN”, after the value is stable, press the “ON/OFF”, to finish the calibration.

The detailed process is as below:

1. Connect the detector with standard gas cylinder by tube.
2. Enter the standard gas calibration interface.
3. Change the target point value to the standard gas value.
4. Release the standard gas to the detector in a flow rate of 400mL/min. The value of “current concentration” will become larger gradually, and become stable after about 30 seconds.
5. When the value of VA and AD is stable, the value of “current concentration” will be same with or almost same with the “target point value”. Press the “UP/DOWN” button to change the “SET” to “CONFIRM”, and press the “ON/OFF” button, the calibration is finished.
6. Cut off the standard gas supply.

