

Brief Operation Manual

PIDVIEW300、PIDVIEW301

Portable Photoionization

Volatile Organic Compound (VOC) Detector





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1、 Function explain

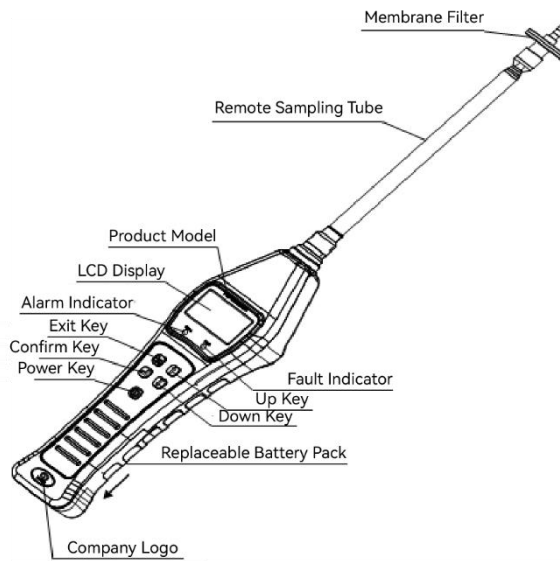



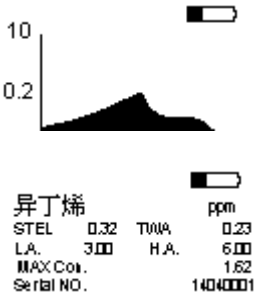
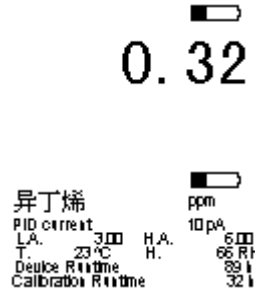
Figure 2: Detector Structure Schematic

1.1、 Button Functions

- Power Button: Used to turn the device on or off.
- Enter/Confirm Button: Used to confirm the current selection or access additional information.
- Exit/Back Button: Returns to the previous menu or display screen.
- Up Button: Adjusts the selected parameter value or changes options.
- Down Button: Functions similarly to the Up button for adjusting parameter values or changing options, but in the opposite direction.


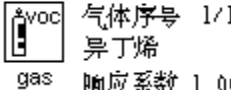





1.2、 Common Display Window Switching and Operations






	<p>Basic Function Window</p> <p>In the Large Font Display window, press the Exit/Back Button to enter the Basic Function Window. At this point, you can use the Up or Down Button to navigate through the options, and press the Enter/Confirm Button to access the Graph Display Window, Large Font Display Window, or Parameter Settings Window respectively.</p>
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 <p>异丁烯 ppm STEL 0.32 TWA 0.23 L.A. 3.00 H.A. 6.00 MAX.Con. 1.62 Serial NO. 14040001</p>	<p>Chart Display Window</p> <p>In the Basic Function Window, select the "Chart" option and press the Enter/Confirm Button to enter the Chart Display Window. This window displays gas concentration changes in graphical format. Press and hold the Enter/Confirm Button to view additional information, including: current detected gas name, measurement unit, STEL (15-minute) concentration value, TWA (8-hour) concentration value, low alarm setpoint, high alarm setpoint, maximum concentration recorded since instrument startup, and instrument serial number.</p> <p>Use the Up or Down Button to adjust the display coordinate range. Press the Exit/Back Button to return to the Basic Function Window.</p>
 <p>0.32 ppm</p> <p>异丁烯 ppm PID current 10 pA L.A. 3.00 H.A. 6.00 T. 23.00 °C H. 66 RH Device Runtime 89 h Calibration Runtime 32 h</p>	<p>Large Font Display Window</p> <p>In the Basic Function Window, select the "Digital" option and press the Enter/Confirm Button to enter the Large Font Display Window. This window prominently displays the current measured concentration value in large, highly visible text.</p> <p>Press and hold the Enter/Confirm Button to view additional information, including: current detected gas name, measurement unit, PID sensor output current, low alarm setpoint, high alarm setpoint, internal instrument temperature, internal relative humidity, total instrument operating time, and operating time since last calibration. Press the Exit/Back Button to return to the Basic Function Window.</p>

1.3、 Parameter Settings Window Navigation and Operation

<p>警告 进入菜单操作将对设备产生重大影响, 请慎重!</p>	<p>Warning Window</p> <p>In the Basic Function Window, select the "Setting" option and press the Enter/Confirm Button to enter the Warning Display Window. Press the Enter/Confirm Button again to proceed to the Parameter Settings Selection</p>
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	<p>Window. Once in the Parameter Settings Window, all instrument alarm functions are temporarily disabled.</p>
	<p>Parameter Settings Window</p> <p>In the Parameter Settings Window interface, use the Up or Down Button to navigate through the options. Select the desired parameter adjustment window and press the Enter/Confirm Button to enter the corresponding parameter settings screen for making adjustments.</p>
	<p>Gas Selection Window</p> <p>In the Parameter Settings Window, select the “gas” option and press the Enter/Confirm Button to enter the Gas Selection Window. Use the Up or Down Button to scroll through the available options and select the gas to be detected. Press either the Enter/Confirm Button or the Exit/Back Button to save the settings and return to the Parameter Settings Window.</p>
<p>Step0 校准必要前提  检测气体设置: 异丁烯 span 检测单位: ppm</p> <p>Step1 设置样气浓度  10.0 ppm span 样气: 异丁烯</p> <p>Step2 仪器进气口通入清洁空气  按确定键开始标定零点 span</p> <p>Step3  0.32 ppm 标定零点</p> <p>Step4 仪器进气口通入校准样气  按确定键开始校准 span</p>	<p>Calibration Window</p> <p>In the Parameter Settings Window, select the “span” option and press the Enter/Confirm Button to enter the Calibration Window.</p> <p>This instrument uses a two-point calibration method. A complete calibration consists of zero-point calibration followed by span calibration using a gas sample of known concentration. Prior to calibration, the detection gas must be set to isobutylene and the measurement unit must be set to ppm; otherwise, calibration cannot proceed.</p> <p>The calibration procedure follows the step-by-step diagram shown on the left, proceeding from top to bottom. Upon successful completion, or if the Exit/Back Button is pressed during the process, the instrument returns to the Parameter Settings Window.</p>

<p>Step 5 样气校准 10.32^{ppm}</p> <hr/> <p>Step 6 校准成功  span</p>	
<p> unit</p> <p>检测单位设置 ppm</p>	<p>Unit Selection Window</p> <p>In the Parameter Settings Window, select the "Unit" option and press the Enter/Confirm Button to enter the Unit Selection Window. Use the Up or Down Button to scroll through the available options and select the desired measurement unit. Press either the Enter/Confirm Button or the Exit/Back Button to save the settings and return to the Parameter Settings Window.</p>
<p> alarm</p> <p>报警点设置 低报 3.00 高报 6.00</p>	<p>Alarm Setpoint Configuration Window</p> <p>In the Parameter Settings Window, select the "Alarm" option and press the Enter/Confirm Button to enter the Alarm Setpoint Configuration Window. Use the Up or Down Button to toggle between options and modify the alarm setpoint values. Holding down the Up or Down Button will accelerate the adjustment speed. Press either the Enter/Confirm Button or the Exit/Back Button to save the settings and return to the Parameter Settings Window.</p>
<p> clean</p> <p>建议链接充电器进行清洗 按确定键开始 自动清洗</p> <p>自动清洗 正在清洗</p> <p> clean</p>	<p>Auto-Clean Function Window</p> <p>In the Parameter Settings Window, select the "Clean" option and press the Enter/Confirm Button to enter the Auto-Clean Function Window. Press the Enter/Confirm Button to initiate the auto-clean cycle; the instrument will automatically clean the PID sensor to restore optimal sensor performance. Press the Exit/Back Button to return to the Parameter Settings Window without starting the cleaning cycle.</p>

 <p>背景灯设置 开/关 AUTO lamp</p>	<p>Backlight Settings Window</p> <p>In the Parameter Settings Window, select the “lamp” option and press the Enter/Confirm Button to enter the Backlight Settings Window. Use the Up or Down Button to toggle between options and change the backlight setting. The available backlight modes are:</p> <p>AUTO: Automatically turns off after 20 seconds of inactivity</p> <p>YES: Always on</p> <p>NO: Always off</p> <p>Press either the Enter/Confirm Button or the Exit/Back Button to save the settings and return to the Parameter Settings Window.</p>
 <p>报警声设置 开/关 YES sound</p>	<p>Alarm Sound Settings Window</p> <p>In the Parameter Settings Window, select the “sound” option and press the Enter/Confirm Button to enter the Alarm Sound Settings Window. Use the Up or Down Button to toggle between options and change the alarm buzzer setting. The available alarm sound modes are:</p> <p>YES: On</p> <p>NO: Off</p> <p>Press either the Enter/Confirm Button or the Exit/Back Button to save the settings and return to the Parameter Settings Window.</p>
 <p>日期时间设置 14年01月01日 08时15分28秒 time</p>	<p>Date and Time Settings Window</p> <p>In the Parameter Settings Window, select the “time” option and press the Enter/Confirm Button to enter the Date and Time Settings Window. Use the Up or Down Button to toggle between options and change the date and time values. Press either the Enter/Confirm Button or the Exit/Back Button to save the settings and return to the Parameter Settings Window.</p>

 <p>检测地点选择 地点编号</p>	<p>Detection Location Selection Window</p> <p>In the Parameter Settings Window, select the “area” option and press the Enter/Confirm Button to enter the Detection Location Selection Window. Use the Up or Down Button to toggle between options and change the detection location. Detection data will be stored in the corresponding memory file based on the assigned location ID for host computer retrieval and analysis. Press either the Enter/Confirm Button or the Exit/Back Button to save the settings and return to the Parameter Settings Window.</p>
 <p>出厂设置 注意:所有参数 都将恢复出厂 默认值</p>	<p>Factory Reset Window</p> <p>In the Parameter Settings Window, select the “reset” option and press the Enter/Confirm Button to enter the Factory Reset Window. Press the Enter/Confirm Button again to initiate factory reset; the instrument will automatically power off and restore all parameters to factory default settings. Press the Exit/Back Button to return to the Parameter Settings Window.</p>



2、 Troubleshooting Common Issues

Symptom	Cause	Solution
No power on, unable to charge	1. Explosion-proof protection triggered due to battery overcharge	Reconnect the charger to activate battery startup
	2. Protection mechanism triggered due to battery over-discharge	Remove battery pack and charge separately for several minutes, then reinstall and power on to continue charging
	3. Battery damage	Contact manufacturer for battery replacement
Reading displayed at startup	Significant temperature/humidity difference between storage and operating environment	Recommend pre-startup warm-up of 15 minutes; store device at room temperature when powered off
Frequent alarms	1. High concentration of volatile organic compounds (VOCs) in environment	1. Check detector with zero gas (compressed air or nitrogen) to confirm cause; if high VOC concentration confirmed, consider emission reduction at leak source or adjust alarm setpoints accordingly
	2. Severe contamination inside ionization	2. Contact manufacturer for ionization chamber
Alarm without vibration	1. Loose motor wiring	Open housing and check motor connections; reseal connectors if necessary
	2. Motor damage or related circuit failure	Contact manufacturer for repair
LED	LED damage or related circuit failure	Contact manufacturer for repair
Calibratio	Software corruption or outdated firmware	Contact manufacturer for reinstallation
Ionization	—	Contact manufacturer for repair
Humidity	—	Contact manufacturer for repair
Other	—	Consult manufacturer for technical support and repair



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* The manufacturer reserves the right to modify and improve the products described in this manual at any time without prior notice.