**Product Overview**

P1000 and M1000 are designed to detect the air quality. Adopting the high-precision electrochemical fixed bi-film sensor, laser particle sensor and carbon dioxide sensor based on NDIR, it can directly transform the concentration of pollutants in the air into visual data and provide air quality for you to effectively safeguard the health of your family.

**Application Scope**

Indoors, Outdoors, Vehicles, etc.

**Product Appearance**

![Product Appearance](image)

**Product Specifications**

- Main Air quality detector
- Display mode: LCD screen
- Battery voltage: 3.7VDC
- CPU: Pressure chip: STMP133P234s
- Power adapter:
  - Output: DC5V 0.55A
- Battery life: 6-8h
- Operating environment:
  - Temperature range: -5°C to 55°C
  - Humidity range: 0-95% RH
- Atmospheric pressure condition: 25°C
- Measurement rate and range:
  - CO measurement technical index:
    - Range: 0-1000ppm
    - Resolution: 0.1ppm
  - NO measurement technical index:
    - Range: 0-240ppm
    - Resolution: 0.1ppm
  - PM2.5 measurement technical index:
    - Range: 0-500μg/m³
    - Resolution: 0.1μg/m³
  - PM10 measurement technical index:
    - Range: 0-500μg/m³
    - Resolution: 0.1μg/m³
- CO2 measurement technical index:
  - Range: 0-5000ppm
- Resolution: 3ppm

**Operation Method**

1. Turn on/off the detector
   - Press and hold the power button for 2 seconds to turn on/off the detector
2. Set the detection interval
   - In order to extend the service life of the product, it will enter the intermittent detection mode after 10 minutes of operation. In this mode, the sensor will work intermittently and the detection interval will be 1 to 30 minutes adjustable. When any key is pressed, the mode is automatically exited and held for 30 minutes. The detection setting method is as follows:
     - Short-press “M” button to enter setting mode when instrument is on, the (3) interface display present time interval, press “+” button, the interval time add 5 minutes, press “-” button, the interval time reduce 5 minutes, short-press “SET” button applies, the instrument will exit interval-time setting mode and save the current settings.
3. Detection
   - When product is first powered on, self-test mode will start running. First, when the screen content is added to "D", then will enter into the normal detection mode. CO2 sensor requires 30-60 seconds warm up time, after the initial access to normal detection mode, CO2 index display position will display 180 seconds countdown. When the countdown is over, the screen will normally display CO2 concentration value of the environment. Turn on the detector and put it in the environment; when needs testing, then the system will automatically detect the concentration of formaldehyde, TVOC, PM2.5, PM10.
4. Power indication
   - The detector has the function of testing the battery power. When the battery is low, please charge.

**Health Parameters Guide**

<table>
<thead>
<tr>
<th>HCHO (mg/L)</th>
<th>TVOC (mg/L)</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.001</td>
<td>0.05</td>
<td>Healthy</td>
</tr>
<tr>
<td>&gt;0.001</td>
<td>&gt;0.05</td>
<td>Unhealthy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PM2.5 (μg/m³)</th>
<th>PM10 (μg/m³)</th>
<th>CO2 (ppm)</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;10</td>
<td>&lt;50</td>
<td>0-500</td>
<td>Good</td>
</tr>
<tr>
<td>10-30</td>
<td>50-150</td>
<td>500-1000</td>
<td>Moderate</td>
</tr>
<tr>
<td>30-150</td>
<td>150-400</td>
<td>1000-2000</td>
<td>Unhealthy for Sensitive Group</td>
</tr>
<tr>
<td>&gt;150</td>
<td>&gt;400</td>
<td>&gt;2000</td>
<td>Very Unhealthy</td>
</tr>
</tbody>
</table>

**Tamtop P1000/M1000**