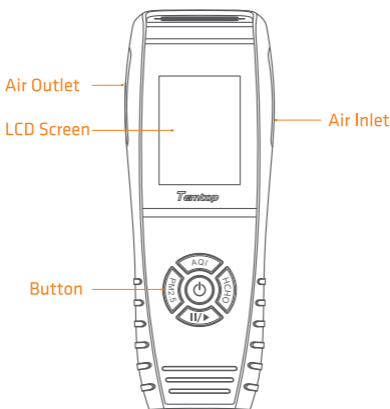# Temtop

LKC-1000E/1000S/1000S+

⚠ Important !

- It is normal to display a higher value when the detector is turned on for the first time or unused for a long time. Place it in a ventilated environment for 8 hours before detection.

- Before detection, keep the target room airtight for 10 minutes. Take the average value of multiple points in order to calculate its overall air quality.

- Do not put the detector in the environment with formaldehyde (HCHO) concentration above 1.0 mg/m^3 or PM concentration above 500 ug/m^3 for a long time. Otherwise, the sensor may be damaged and cannot run normally.

- Do not contact with organic solvents which include silica gel and other adhesives, paintings, drugs, oil and high-concentration gases.

- Do not use the detector in humid environment in order to maintain the detection accuracy.

- Do not cover the air inlet / outlet when using the detector.

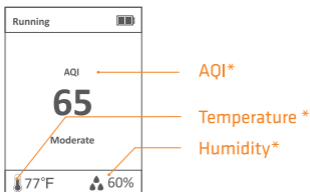- Be cautious of cross interference by ethanol, benzene, ammonia, etc.

OVERVIEW

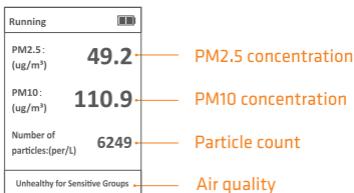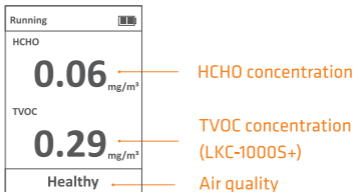LKC-1000 series detectors can accurately detect air quality by its high-precision electrochemical formaldehyde sensor and laser particle sensor. With air pollutant concentration displayed in intuitive data, the detectors can also record, save and export historical data, so they are suitable for various environments such as home, school, office and automobile.

APPEARANCE

Air Outlet

LCD Screen

Air Inlet

Button

DISPLAY

1) Data View

Running	
HCHO	
0.06 mg/m³	— HCHO concentration
TVOC	
0.29 mg/m³	— TVOC concentration (LKC-1000S+)
Healthy	— Air quality

Running	
PM2.5 : (ug/m³)	**49.2** — PM2.5 concentration
PM10 : (ug/m³)	**110.9** — PM10 concentration
Number of particles:(per/L)	**6249** — Particle count
Unhealthy for Sensitive Groups	— Air quality

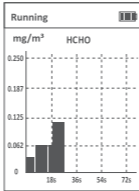| Running	
AQI	— AQI*
65	— Temperature *
Moderate	— Humidity*
77°F 60%	

Only adailable for LKC-1000S and LKC-1000S+.
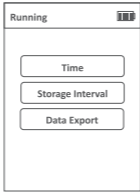
3

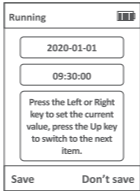## 2) Graph View(LKC-1000S+ only)
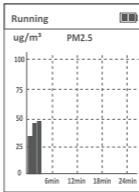
⚠ **Note**

- ↗ Data updates every 3 seconds when x axis value is within 72 seconds.
- ↗ Data updates every 1 minute when x axis value is within 24 minutes.
- ↗ Data updates every 5 minutes when x axis value is within 120 minutes.
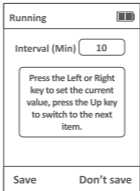- ↗ Data updates every 30 minutes when x axis value is within 12 hours.

3) Setting

```
┌─────────────────────────┐
│ Running            ▐█▌   │
│                         │
│   ┌─────────────────┐   │
│   │      Time       │   │
│   └─────────────────┘   │
│   ┌─────────────────┐   │
│   │ Storage Interval│   │
│   └─────────────────┘   │
│   ┌─────────────────┐   │
│   │   Data Export   │   │
│   └─────────────────┘   │
│                         │
└─────────────────────────┘
```

3.1) Time

```
┌─────────────────────────┐
│ Running            ▐██▌  │
│   ┌─────────────────┐   │
│   │   2020-01-01    │   │
│   └─────────────────┘   │
│   ┌─────────────────┐   │
│   │    09:30:00     │   │
│   └─────────────────┘   │
│   ┌─────────────────┐   │
│   │ Press the Left or│  │
│   │ Right key to set │  │
│   │ the current      │  │
│   │ value, press the │  │
│   │ Up key to switch │  │
│   │ to the next item.│  │
│   └─────────────────┘   │
│ Save         Don't save │
└─────────────────────────┘
```

The setting range of "year" is 2017 to 2099. After setting the time, switch to the "Save" option and press ⏻ to save the current setting, otherwise it will not be saved.

3.2) Storage Interval

```
┌─────────────────────────┐
│ Running            ▐█▌   │
│  Interval (Min) ┌──────┐ │
│                 │  10  │ │
│                 └──────┘ │
│   ┌─────────────────┐   │
│   │ Press the Left or│  │
│   │ Right key to set │  │
│   │ the current      │  │
│   │ value, press the │  │
│   │ Up key to switch │  │
│   │ to the next item.│  │
│   └─────────────────┘   │
│                         │
│  Save        Don't save │
└─────────────────────────┘
```

Options: 1, 5, 10, 30 and 60 minutes.

3.3) Data Export

```
Running                    ▮▮▮

 The instrument is testing
    whether the USB is
   connected correctly...

```

The detector is finding available USB connection.

```
Running                    ▮▮▯

  USB connection Successful!
 Please do not disconnect the
  USB during the connection. If
    you want to exit the USB
   connection mode, press the
         'HCHO' button!
```
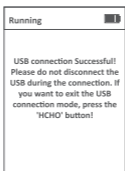
If the detector is connected to the computer and the driver is successfully installed, it enters data export mode. The computer will display a removable storage disk named "Temtop", containing a HISTORY folder and a SYSTEM folder. The data is stored in the HISTORY folder. The SYSTEM folder contains system configuration files, which are only for engineers to repair and test the detector. After the data exported, press the "HCHO" button to exit the mode. The detector will shut down and can be used after restarted.

```
Running                    ▮▮▯

   USB connection failure,
    please restart the
        instrument!
```

If the detector has connected to the computer but the driver fails to be installed, it will pop up a tip and shut down. Please restart the detector and try again.

```
┌─────────────────────────────┐
│ Running              ▭▭▭     │
│                             │
│                             │
│       No USB connection     │
│          detected!          │
│                             │
│                             │
│                             │
│                             │
└─────────────────────────────┘
```

If the USB cable is not used to connect to the computer for data export, the detector will not find the correct connection and pop up a tip. Please connect it in the right way.

Note: If the detector fails to connect to the computer, check the computer or data cable whether it supports data export function.

SPECIFICATIONS

Model	LKC-1000E/1000S/1000S+
Display	TFT color LCD screen
Battery capacity	3000mAh
Charging output	DC5V, 1A
Dimensions	177x65.5x32mm
Operating environment	Temperature: 0~50°C Humidity: 0~90%RH
Air pressure	1atm
PM2.5	Measuring range: 0-999 ug/m³ Resolution: 0.1 ug/m³
PM10	Measuring range: 0-999 ug/m³ Resolution: 0.1 ug/m³
HCHO	Measuring range: 0-5 mg/m³ Resolution: 0.01 mg/m³
TVOC	Measuring range: 0-5 mg/m³ Resolution: 0.01 mg/m³

BUTTONS

Button	Model	Function
AQI	LKC-1000E	Press to see AQI. In setting mode, press to switch options or adjust value of the current parameter.
	LKC-1000S LKC-1000S+	Press to see AQI, temperature and humidity. Press and Hold for 5 seconds to switch between °C or °F. In setting mode, press to switch options or adjust value of the current parameter.
PM2.5	LKC-1000E LKC-1000S	Press to see PM2.5, concentration. Press again to see PM10, concentration and particle counts. In setting mode, press to switch options or adjust value of the current parameter.
	LKC-1000S+	Press to see PM2.5/PM10 concentration and particle counts. Press again for graphic view of PM2.5 concentration. In setting mode, press to switch options or adjust value of the current parameter.
HCHO	LKC-1000E LKC-1000S	Press to see HCHO concentration. In data export mode, press to exit. In setting mode, press to switch options or adjust value of the current parameter.
	LKC-1000S+	Press to see HCHO/TVOC concentration. Press again for graphic view of HCHO concentration. In data export mode, press to exit. In setting mode, press to switch options or adjust value of the current parameter.
II/▶	LKC-1000E LKC-1000S LKC-1000S+	Press to shift between Running and Hold mode. Press 5s to enter or exit system setup. In setting mode, press to switch options or adjust value of the current parameter.

PARAMETER INDEX FOR REFERENCE

HCHO (mg/m³)	TVOC (mg/m³)	LEVEL
0-0.1	0-0.6	Healthy
>0.1	>0.6	Unhealthy

PM2.5 (ug/m³)	PM10 (ug/m³)	AQI	LEVEL
0.0-12.0	0-54	0-50	Good
12.1-35.4	55-154	51-100	Moderate
35.5-55.4	155-254	101-150	Unhealthy for Sensitive Groups
55.4-150.4	255-354	151-200	Unhealthy
150.5-250.4	355-424	201-300	Very Unhealthy
≥250.5	≥425	≥301	Hazardous

OPERATIONS

1. Switch On/Off

Hold the power button ⏻ 2 seconds to turn on/off the detector.

Note: The detector will automatically off after 1 hour of inactivity. This Auto off function is disabled in graph view interface.

2. Detection

After switch on the detector, it will automatically start to detect the concentration of pollutants in the air, such as PM2.5, PM10, HCHO, etc.

3. Working Mode

In Running mode, the detector always displays currently detected data.

In Hold mode, the detector paused the detection function and will stop updating data on the screen.

4. Data Storage & Export

You can adjust time and save the data detection interval in "Setting". After the detector is correctly connected to the computer, you can obtain and check the data history in your computer.

5. Charge Battery

Plug in the supplied USB cable to the charging port of the detector.

▐▐▐▐▐ : Battery full.

▐▔▔▔▏ : Battery low. Please charge.

PACKAGE CONTENT

LKC-1000E/1000S/1000S + Detector x 1
USB Cable x 1
User Manual x 1

APPENDIX

LKC-1000 Series

Model	Function
LKC-1000E	PM2.5 / PM10 / HCHO / Particle Count / AQI / Data Export
LKC-1000S	PM2.5 / PM10 / HCHO / Particle Count / AQI / Temperature/Humidity/Data Export
LKC-1000S+	PM2.5 / PM10 / HCHO / Particle Count / AQI / Temperature / Humidity / Histogram / TVOC / Data Export

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