HiSPEC
LIGHTING • FIRE & CO DETECTION

UK CA | CE

MODEL: HSSA/VAPE

MAINS POWERED SMART VAPE DETECTOR

MAIN FEATURES:
- PM2.5 Laser Scattering Sensor
- Real-time monitoring via TUYA app
- Remote alarm via app notification
- Adjustable sensitivity
- WiFi connectivity
- Easy to install

This instruction leaflet contains important information on the correct installation and operation of your alarm. Read this leaflet fully before attempting installation and retain for future reference.

SPECIFICATIONS

Power Source:	AC adaptor input: AC 100 ~ 240V Output DC5V/1A USB Type C
Sensors:	PM2.5 Laser Scattering
PM2.5 Detection Range:	0-999µg/m³
Networking:	WiFi 2.4 GHz
Operation Temperature:	-10°C to 55°C
Working Humidity :	≤95% RH (Non-condensing)
Installation positions:	Wall or ceiling mounting
Dimensions:	90x90x26mm (without bracket)

COMPONENTS INCLUDED

- Vape Detector
- 3-Pin (UK) plug
- 2.5m Type C cable
- Quick mounting bracket
- Sticky Pad

- Screw pack, containing:
  2 x screws
  2 x screw plugs
  Networking key

PRODUCT DESCRIPTION

HSSA/VAPE is a Mains Powered Smart Vape Detector with a PM2.5 Laser Scattering Sensor. This sensor type is designed to detect Particulate Matter, such as vape vapour and cigarette smoke, and is particularly useful in areas where a full fire detection system would cause major disruption.
This standalone detector simply sends a notification to the user's phone/tablet, allowing them to pinpoint the root cause of activation, without causing any disruption to other areas within the premises.

LOCATING THE VAPE SENSOR

Ideally, a vape alarm should be installed in every room where vaping is prohibited or in areas where discouraging vaping activities is desired. Considerations should be made to avoid excessive false alarms as the PM2.5 laser scattering sensor can detect other contaminants. The following is meant to be used as a basic guideline, with further considerations made within each specific location; as environmental conditions will differ:

- Ensure that the device is stored and operated in a dry place and out of direct sunlight, as to protect the internal components.
- Ensure that the device's ventilation inlets are not obstructed.
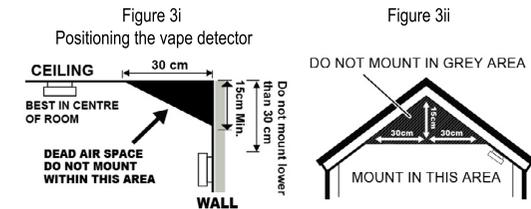
AREAS TO AVOID:

- Avoid installation within 4 feet of forced or unforced ventilation sources.
- Avoid installation near showers or steam generating equipment.
- Avoid installation in proximity to sources of potential water ingress.
- Avoid installation in areas where the temperature regularly drops below or exceeds the range given in the specifications section.
- Avoid installing the detector in proximity to draft generators such as fans, doors, windows or hand dryers.
- Avoid installation in tight or confined spaces or areas too far from potential vaping activities.

Ceiling mounting:

As PM2.5 concentrate rises, it is advisable to mount the detector in a central location in the room, avoiding areas that may prevent the free flow of air. Place the unit at least 300mm from walls or any light fitting or decorative object which may prevent optimal air flow.

Wall mounting:

Do not mount within 300mm of a corner, with the top edge at least 150 - 300mm below the ceiling.

Figure 3i
Positioning the vape detector

CEILING
30 cm
BEST IN CENTRE OF ROOM
DEAD AIR SPACE DO NOT MOUNT WITHIN THIS AREA
15cm Min.
Do not mount lower than 30 cm
WALL

Figure 3ii
DO NOT MOUNT IN GREY AREA
30cm 30cm
15cm
MOUNT IN THIS AREA

⚠ Before taking definitive readings, allow the vape detector to run for a period of 24-72 hours to gauge an average PM 2.5 range of the area via the app. This average should be used to set your initial alarm threshold. Further adjustments should be made during the calibration stage, as outlined overleaf.

INSTALLATION GUIDE

BEFORE MOUNTING, always use the correct equipment to ensure that there are no pipes or electrical wiring directly behind the intended mounting area of the wall or ceiling.

- Having established that the mounting location is safe, place the mounting bracket against the surface and mark the drilling hole positions with a pencil.

Mounting slot
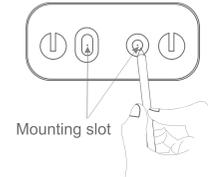
- Drill two holes with a 3/16 inch (5mm) drill bit on the two pencil marks. Make sure the device is removed from the area or placed back into the packaging before proceeding to drill.

- Push the provided plugs into the drilled holes and screw in the provided screws, leaving 5mm protruding.

5mm »

- Look at the back of the vape detector and note the direction of the receiving channels. Now hang the product onto the bracket and slide in the direction of the receiving channels. Do not plug in the USB power cord until prompted to do so in the connection guide.

CONNECTION GUIDE:

1. Ensure that Bluetooth and WiFi functions on your mobile phone are both turned on before proceeding.

2. Download the TUYA Smart App by navigating to the following link or by scanning the QR code below: smartapp.smart321.com/smartlife/

CONNECTION GUIDE cont:

3. Register an account on the TUYA Smart App and log in.

4. Plug the USB power cable into the vape detector.

5. Automatic Networking
When the device is powered on for the first time, a green LED will flash, indicating that the device is in networking state; this will last 60 seconds. If networking is successful, the green LED will stay on permanently. If networking fails, a yellow LED will flash once every 5 seconds.

6. Manual Networking
If automatic networking fails, please attempt to connect manually: Using the Networking Key provided (pictured below), press and hold the button in the networking hole for 5 seconds. The green LED should now flash to indicate the device has entered networking state; you will be able to add the device to the network according to the app prompts.

Status LED
Networking Hole
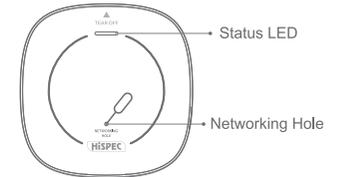
7. Inside the app, click "Add Device" on the home page. On the following page, you should now see "Discovering devices...". Click "Add" to enter the WiFi configuration page. Enter your WiFi password and follow the prompts within the app until the device is successfully connected. (Please note the app supports WiFi 2.4GHz networks only)
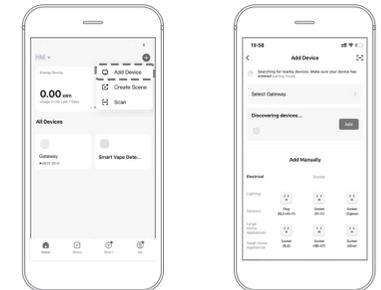
8. Now that installation is complete, please remove the protection film.
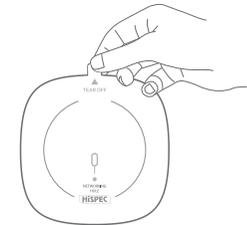
LED Status Description

Status	LED
PM2.5, air quality-good (Standby)	The green LED is on.
PM2.5, air quality-poor (Alarm)	Red LED flashes
Fault	The yellow LED is on.

CALIBRATION

It is highly recommended that the device is left for 24-72 hours in the room before use as a calibration period. During this period, the PM readings should be monitored closely to assess the average air quality PM rating. Normal activities such as opening doors and windows, activating hand dryers, turning on A/C should be performed whilst actively monitoring the readings via the app. This will allow you to gain a better understanding of the normal air quality range within the room. You can then adjust the sensitivity of the PM2.5 sensor through the app to a level that will not detect these air quality changes, allowing you to set a threshold that will detect vaping activities with minimal false alarm notifications.

TESTING THE DEVICE

Following calibration, it is recommended to test your new threshold by using a vape in proximity to the device to ensure a notification is received. It is also wise to test other normal activities to ensure they are not triggering false alarms, such as hoovering/mopping with normal bleach mixture, general cleaning substances, deodarant use etc. Allow the PM reading to return to normal levels between tests.

MAINTAINING YOUR VAPE DETECTOR

To maintain your vape detector in proper working order, it is recommended that you clean the outside case regularly to prevent dust or dirt build up in the ventilation inlet slots. To clean the device, simply wipe with a damp cloth or a clean tissue. DO NOT USE CLEANING AGENTS, BLEACH, POLISH OR ANY CHEMICALS. Chemicals can permanently damage the device or temporarily contaminate the sensor. DO NOT ALLOW WATER TO ENTER THE INSIDE OF THE DEVICE.

NOTE - If you will be staining or stripping wood floors or furniture, painting, wall-papering or using aerosols or adhesives, remove the vape detector to a remote location before in order to prevent possible damage to or contamination of the sensor.

The following is a list of substances which, at high levels, can affect the sensor and may cause a nuisance alarm that is not a vaping activity alarm: Methane, propane, iso-butane, ethylene, ethanol, alcohol, iso-propanol, benzene, toluene, ethyl acetate, hydrogen, hydrogen sulfide, sulphur dioxides. Also, most aerosol sprays, alcohol based products, paints, solvents, adhesives, hair sprays, after shaves, perfumes and some cleaning agents.

THIS PRODUCT IS A SEALED UNIT AND CANNOT BE REPAIRED – IF THE UNIT IS TAMPERED WITH IT WILL INVALIDATE THE WARRANTY. IF THE UNIT IS FAULTY PLEASE RETURN IT TO YOUR ORIGINAL SUPPLIER WITH YOUR PROOF OF PURCHASE.

VAPE DETECTOR LIMITED WARRANTY

This device is in warranty under normal use and service for a period of 2 years from date of purchase. The company will not be obligated to repair or replace parts which are found to be in need of repair because of misuse, damage or alterations that have occurred after the date of purchase. Send the alarm with proof of purchase, postage and return postage prepaid, to your local distributor. The liability of the company arising from the sale of this alarm shall not in any case exceed the cost of replacement of alarm and in no case shall the company be liable for consequential loss or damages resulting from the failure of the alarm.

HISPEC ELECTRICAL PRODUCTS LTD. SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE, OR ANY SPECIAL INCIDENTAL, CONTINGENT OR CONSEQUENTIAL DAMAGE OF ANY KIND RESULTING FROM A FIRE. THE EXCLUSIVE REMEDY FOR BREACH OF THE LIMITED WARRANTY CONTAINED HEREIN IS THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT AT HISPEC ELECTRICAL PRODUCTS LTD. OPTION. IN NO CASE SHALL HISPEC ELECTRICAL PRODUCTS LTD.'S LIABILITY UNDER ANY OTHER REMEDY PRESCRIBED BY LAW EXCEED THE PURCHASE PRICE. YOUR ALARM IS NOT A SUBSTITUTE FOR PROPERTY, DISABILITY, LIFE OR OTHER INSURANCE OF ANY KIND. APPROPRIATE COVERAGE IS YOUR RESPONSIBILITY. CONSULT YOUR INSURANCE AGENT.

This does not affect your statutory rights. Waste electrical products should not be disposed of with normal household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. New regulation will encourage the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005).