

PARTICULATE DETECTOR | Model: FD-PM2.5

FORENSICS DETECTORS™

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DETECTORS**



**** ATTENTION ****

- KEEP DETECTOR AWAY FROM ELECTROMAGNETIC INTERFERENCES (i.e. PHONES & MAGNETS)
- STORE DETECTOR WITHIN SPECIFICATIONS
- DO NOT INHALE ANY GAS LEAKS
- IF UNWELL, SEEK CLEAN AIR & HELP
- DO NOT OPEN THE UNIT
- NOT A PERSONAL PROTECTION DEVICE, ONLY for OUTDOOR AND INDOOR AIR QUALITY READINGS

INTRODUCTION

You have purchased the Forensics Particulate Monitor PM 2.5 air detector that employs an advanced laser sensor to detect particles less than 2.5 microns. This unit detects particles that are emitted from dust, smoke, cigarettes, weed and other substances. The unit is small and perfect for indicating dust and air quality in the home, car, or workplace. The product is constructed with ABS material in a sleek design for enhanced ergonomics.

OPERATION

- Press the POWER button to begin.
- The displays shows you the concentration of particulate in the air with units $\mu\text{g}/\text{m}^3$
- Take measurements. When going to a new location, maintain a stationary position for 5 minutes to allow the unit to take a good stable reading.
- **Smoking Example:** If trying to take a reading for example when somebody is smoking weed. Take a measurement when (a) not smoking weed (b) smoking weed. Compare the values between the two cases to confirm smoking. Smoke value would need to be much high than when not smoking.
- Press the POWER button, long press to turn OFF.

😊 Green Light:	Excellent air quality	0-75 $\mu\text{g}/\text{m}^3$
😬 Orange Light:	Mild air Pollution	75-150 $\mu\text{g}/\text{m}^3$
😡 Red Light:	Heavy air pollution	>150 $\mu\text{g}/\text{m}^3$

BATTERY POWER & AUTO OFF

Your PM2.5 detector is powered by an internal Li-Ion battery. Plug the cable to a recharger then plug it to the USB port of the analyzer (generic micro USB cable). Recharge takes about 3 hours. After 30 minutes the unit will automatically turn OFF. Battery level is indicated on the display.



What is a Bad PM2.5 value?

The United States Environmental Protection Agency (EPA) established National Ambient Air Quality Standards for PM_{2.5}. The short-term standard (24-hour or daily average) is **35 $\mu\text{g}/\text{m}^3$** and the long-term standard (annual average) is **12 $\mu\text{g}/\text{m}^3$** . A microgram is a unit of weight.

Cal/OSHA's wildfire smoke standard applies to workplaces where the current Air Quality Index (AQI) for airborne PM_{2.5} is **151 $\mu\text{g}/\text{m}^3$ or greater** (deemed an unhealthy level).

SPECIFICATIONS

Detectable Particles: less than 2.5 micron

Detection Range (PM2.5): 0-600 $\mu\text{g}/\text{m}^3$

Response Time: <100 seconds

Alarm: Visible Color Change

Auto Off: after 30 minutes

Dimensions: 6.2 cm x 6.2 cm x 3.7cm

Weight: 200 grams

Power: 950 mAh Li-Ion Battery (recharge 5V/1A)

Temperature: 30-122F

Working Humidity: 10%-95%RH

Items Included: Analyzer, Manual & Recharge Cable

Web: www.forensicsdetectors.com

Email: sarah@forensicsdetectors.com

Product Made in China, Manual Printed in the USA
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