

CO₂, VOC, TEMPERATURE AND HUMIDITY MONITOR DATASHEET

Introduction

This all in one monitor is a portable desktop and wall mountable instrument and it contains variety of sensor that measure CO₂, VOC, Temperature and Humidity.

The instrument displays the real-time value of CO₂ and VOC concentration in ppm, temperature and relative humidity. It has built-in storage for continuous data logging and Wi-Fi connectivity for easy access of data log.

Features

- Quick response time less than 30 sec
- Wall mountable and desk top device
- 7 Inch HD screen with intuitive, rich graphical display of CO₂ and VOC concentration, temperature, humidity and gas concentration vs health effects table
- Automatic change of color, theme and safety alert message indicating CO₂ and VOC concentration.
- Real time continuous data logging of STEL (average of every 15 min.) & TWA (average of every hour).
- Data log in MS Excel file format Download
- Easy 2-step wireless connectivity
- In Built storage of 1 million readings
- Optional HDMI output



Model SA-CV100

Specifications

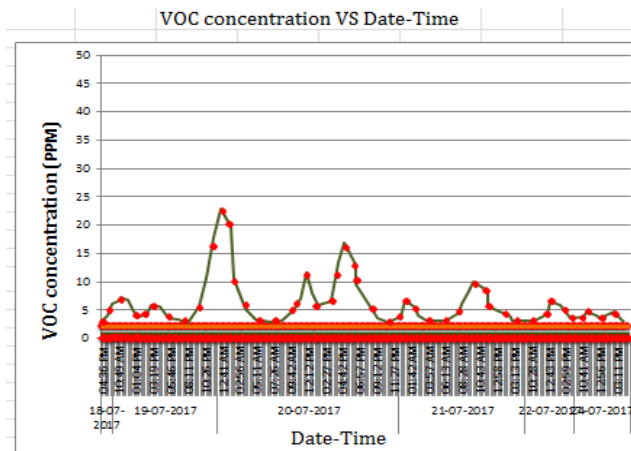
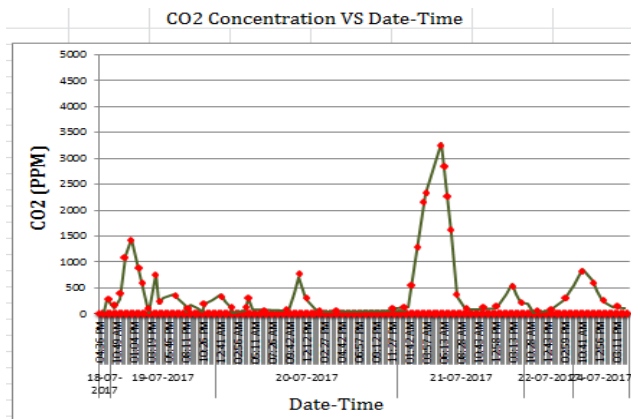
Monitoring parameter	CO ₂	VOC
Concentration range/ Resolution/ Accuracy	0.00 to 5000 ppm /1 ppm / ±5%	0.00 to 50.00ppm / 0.01 ppm / ±10%
Response Time	<90 sec	<3 sec
Warm up time	3 mins	≤1 min
Sensor technology	NDIR	PID
Sensor life	>5 years	>2 years
Temperature range/ Resolution / Accuracy	0 to 50°C / (1°C) / (±1°C)	
Humidity/ Resolution / Accuracy	10 to 90%RH / 1%RH / ±4%RH	
Dimension	14.5 x 9 x 3" (368 x 229 x 76mm)	
Weight	4.12Kg	
Power	230 V AC, 50/60 Hz	
Display	7" HD DISPLAY	
Memory	In built storage of 1 million readings	
Continuous Operation	24 hours	
Warranty	One year	
Count Mode	Automatic	
Display unit	PPM	
Communication Mode	WIFI	
Calibration	Factory calibrated valid for 1year	

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Data Logging

The monitor has automatic data logging of STEL (short term exposure limit) values every 15 minutes throughout the operation of the monitor. It has inbuilt storage of 16GB that can store more than a million data records.

The data log stored in the device can be easily accessed from any Wi-Fi enabled device such as smartphone, pc, laptop etc. The data log has auto generated graph of CO₂ and VOC concentration versus date & time.



Safety Alert

The monitor alerts the user of real time changes in CO₂ and VOC concentration with safety alert message and three different color green, orange and red indicating the range, for easy visual perception.

Automatic change of safety alert message and color depends upon the CO₂ and VOC gas concentration limit.

CO ₂ Range	VOC range	Color	Alert message
0 – 1000 ppm	0 – 10 ppm	Green	Safe
1000–2000 ppm	10 – 20 ppm	Orange	Risky
2000–5000 ppm	20 – 50 ppm	Red	Danger

Applications

The monitor can be used in a wide variety of applications such as

- Residential houses
- Museums
- Exhibition halls
- Restaurants
- Sports gymnasiums
- Conference rooms
- Theaters
- Offices
- Classrooms
- Train stations
- Airports
- Shopping malls