English

Product Datasheet

Stock No: 1746576

6 in 1 Particle Counter

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Features

- 2.8"TFT Color LCD display
- 320*240 pixels
- Images (JPEG) & Video(3GP)
- Micro SD(max, use 8GB)memory card
- Simultaneously measure and display 6 channel of particle sizes.
- HCHO detectors
- TVOC detectors
- CO_2 detector
- Air temperature and humidity
- Dewpoint & Wetbulb temperature
- MAX, MIN, DIF, AVG record, Date/time setup controls
- Auto Power Off

Specifications

Particle Counter	
Channels	0.3, 0.5, 1.0, 2.5, 5.0, 10um
Flow Rate	0.1ft^3 (2.83L/min)
Counting Efficiency	50% @ 0.3 μm; 100% for particles $>$0.45μm
Coincidence Loss	5% at 2,000,000 particles per ft^3
Data Storage	5000 sample records (MicroSD card)
Count Modes	Cumulative, Differential, Concentration
Particle Counter	PM2.5 0 to 2000μg/m^3
	PM10 0 to 2000μg/m^3
HCHO Measure	
Range	0.01 to 5.00PPM
Basic Accuracy	$\pm$5%F.S
Display resolution	0.01ppm

Specifications

TVOC Measure	
Range	0.01 to 9.99PPM
Basic Accuracy	±5%F.S
Display resolution	0.01ppm
CO_2 Measure	
Range	0 to 9999PPM
Basic Accuracy	±5%±75ppm
Display resolution	1ppm
Air temperature and Relative humidity measurement	
Air Temperature Range	0°C to 50°C (32°F to 122°F)
Dewpoint Temperature Range	0°C to 50°C (32°F to 122°F)
Relative Humidity Range	0 to 100%RH
Air temperature Accuracy	±0.5°C (0.9°F) 10°C to 40°C
	±1.0°C (1.8°F) others
Dewpoint temp. Accuracy	±0.5°C (0.9°F) 10°C to 40°C
	±1.0°C (1.8°F) others
Relative Hum. Accuracy	±3%RH 40% to 60%
	±3.5%RH 20% to 40% and 60% to 80%
	±5%RH 0% to 20% and 80% to 100%
Operating Temperature	0°C to 50°C (32°F to122°F)
Storage Temperature	-10°C to 60°C (14°F to 140°F)
Relative Humidity	10 to 90%RH non-condensing
Display	2.8" 320*240 Color LCD with backlight
Power	
Battery	Rechargeable battery
Battery Life	About 4 hours continuous use
Battery Charge Time	About 2 hours with AC adapter

In Particle Mode: When set the sampling time to 21s, the air level constant(a) table is:

Channel	Green	Yellow	Red
0.3μm	0 ~ 100000	100001 ~ 250000	250001 ~ 500000
0.5μm	0 ~ 35200	35201 ~ 87500	87501 ~ 175000
1.0μm	0 ~ 8320	8321 ~ 20800	20801 ~ 41600
2.5μm	0 ~ 545	546 ~ 1362	1363 ~ 2724
5.0μm	0 ~ 193	194 ~ 483	484 ~ 966
10μm	0 ~ 68	69 ~ 170	170 ~ 340

(This data is for reference only and does not apply to any legal evidence)
If you set the sampling time as t, the air level constant formula is Y = a*t/21.

In Mass Concentration Mode: The corresponding data for the analog bar is PM2.5, the table is as follows:

PM2.5(ug/m3)	Status	Bar Color
0 ~ 35	Good	Green
35 ~ 75	Moderate	Yellow
75 ~ 115	Lightly Polluted	Orange
115 ~ 150	Moderately Polluted	Red
150 ~ 250	Heavily Polluted	Purple
> 250	Severely Polluted	Brown Red

CO2 introduction

Carbon dioxide is a colorless odorless gas at room temperature, human breathing is to rely on inhalation of oxygen, exhaled CO_2,CO_2 concentration is too high will directly affect the human breathing is smooth, even serious asphyxia hazards. In general, the concentration of CO_2 can be classified as follows:

Value	Status
0 ~ 800	Fresh air, smooth breathing
801 ~ 1500	Normal breathing, air slightly turbid
> 1500	Began to feel sleepy, feeling headache, drowsiness, dull, severe lead to hypoxia asphyxia