



TES-5321

PM2.5 Air Quality Monitor

Product Features

- Monitoring air pollutant source from dust, petrochemical industry, steel-making plant, thermal power plant, restaurant, smoke, burning plants, driving automobiles.
- The meter is a real-time air quality monitor instrument used to monitor the concentration of PM2.5, humidity and temperature in the indoor environment.
- Fine particulate matter (PM2.5) measurement.
- Mix gases (VOCs-Volatile organic compounds) measurement. High sensitivity to H₂, C₂H₅OH, C₄H₁₀, CO and CH₄. (5322)
- Temperature and Humidity measurements.
- Health index (0 ~ 9) detection and alarm.
- PM2.5 time weighted average reading.
- VOCs time weighted average reading. (5322)
- Data hold and MAX/MIN with time stamp function.
- Six-color LED indication Air Quality Index Category.
- Preset warning point of buzzer alarm, LED and alarm output.
- Manual data memory and read function.
- Auto data logger function. (5322)
- USB Interface. (5322)
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Air Pollution Regulation		WHO				European Union	USA		Canada	Australia	Japan	South Korea	Hong Kong
		IT-1	IT-2	IT-3	AQG		United States	California					
PM2.5 µg/m ³	Yearly average	35	25	15	10	25	12	12	-	8	15	-	35
	Daily average (24-hour)	75	50	37.5	25	-	35	-	30	25	35	-	75

• SPECIFICATIONS

Measurement Range	PM2.5 : 0 to 500 $\mu\text{g}/\text{m}^3$ VOCs : 1 to 50ppm (5322) Humidity : 1% to 99%R.H. Temperature : -20 $^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (-4 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$)
Resolution	1 $\mu\text{g}/\text{m}^3$, 1ppm, 0.1% R.H., 0.1 $^{\circ}\text{C}$, 0.1 $^{\circ}\text{F}$
Accuracy	PM2.5 : $\leq 50\mu\text{g}$: $\pm 5\mu\text{g}$ $> 50\mu\text{g}$: $\pm 10\%$ of reading VOCs : $\pm 10\%$ of reading $\pm 1\text{ppm}$ (5322) Temperature : $\pm 0.8^{\circ}\text{C}$, $\pm 1.5^{\circ}\text{F}$ Humidity : $\pm 3\%$ RH (at 25 $^{\circ}\text{C}$, 30 to 80% RH). $\pm 5\%$ RH (at 25 $^{\circ}\text{C}$, 0 to 20% RH and 80 to 100% RH).
Response time	PM2.5 : $\leq 1\text{min}$ Humidity : 45%R.H. to 95% R.H. $\leq 1\text{min}$ 95%R.H. to 45%R.H. $\leq 3\text{min}$ Temperature : 10 $^{\circ}\text{C}/2\text{sec}$.
Sampling rate	1 sample/second.
Data Memory Capacity	39 sets. (Direct reading from LCD display)
Data Logger Capacity	microSD CARD 4GB (5322)
Alarm Output	Open-collect output. Input impedance: 490 Ω Maximum applied Voltage: 24V DC Maximum drive current: 50mA DC
Operating temperature and humidity	0 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$, below 95% R.H.
Storage temperature and humidity	-10 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$, below 70% R.H.
Power supply	Four 1.5V LR-6/AA size batteries, AC adapter
Battery life	Approx. 8 hour
Dimensions	165mm(L) \times 93mm(W) \times 75mm(T) , (6.5"L \times 3.7"W \times 3"T)
Weight	Approx. 380g (13.4oz)
Accessories	Instruction manual, Battery, AC adaptor DC6V, (CD software & Micro-USB cable) (5322)