

PM2.5, %RH, Temp.

AIR QUALITY MONITOR

Model : PM-1053

ISO-9001, CE, IEC1010



Lutron

<https://tecpe1.com.tw>

The Art of Measurement

PM2.5, %RH, Temp.

AIR QUALITY MONITOR

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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.
* PM2.5 : 0 to 250 $\mu\text{g}/\text{m}^3$, Humidity : 5 to 95 %RH, Temperature : 0 to 50 $^{\circ}\text{C}$, $^{\circ}\text{C}/^{\circ}\text{F}$.
* Data hold, Record(Max,Min)
* Dot matrix LCD display.
* Power by UM3/AA(1.5V) X 6 batteries or DC 9V adapter
* Replacement air filter.
* RS232/USB PC computer interface

SPECIFICATIONS

Circuit	Custom single-chip microprocessor LSI circuit.
Display	LCD Size: 2.18 X 2.87" (55.4 X 72.9 mm). Dot matrix backlit LCD (128 X 240 pixels).
Measurement	* PM2.5(Particulate matter). * Humidity. * Temperature.
Data Hold	Freezes displayed reading.
Memory Recall	Maximum & Minimum value.
Sampling Time	Approx. 1 second.
Data Output USB/RS232	* Computer interface. * Connect the optional USB cable USB-01 will get the USB plug.. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug.
Operating temperature	0 to 50 $^{\circ}\text{C}$ (32 to 122 $^{\circ}\text{F}$).
Operating humidity	Less than 80% R.H..
Power Supply	* DC 1.5V, AA (UM-3) Battery X 6 PCs (Alkaline or heavy-duty battery). * AC to DC 9V power adapter..
Power consumption	DC 122 mA approximately. Backlight ON approximately DC 142 mA.
Weight	362 g/0.8 LB.
Dimension	164 x 93 x 72 mm (6.5 x 3.7 x 2.8 inch).
Accessories included	* Instruction manual..... 1 PC * AC to DC 9V power adapter..... 1 PC
Optional Accessories	* USB cable,USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN, SW-E802. * RS232 to WiFi CONVERTER, RSW-923, IOW-924. * Replacment air filter, AF-01.

Electrical SPECIFICATIONS (23 \pm 5 $^{\circ}\text{C}$)

PM2.5(Particulate matter)

Range	Resolution	Accuracy
0 to 250 $\mu\text{g}/\text{m}^3$	1 $\mu\text{g}/\text{m}^3$	\pm (10 % reading \pm 20 $\mu\text{g}/\text{m}^3$)

Humidity

Range	Resolution	Accuracy
5 % to 95 %RH	0.1 %RH	< 70 %RH: \pm 3 %RH

Temperature

Range	Resolution	Accuracy
0.0 $^{\circ}\text{C}$ to 50.0 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	\pm 0.8 $^{\circ}\text{C}$
32.0 $^{\circ}\text{F}$ to 122.0 $^{\circ}\text{F}$	0.1 $^{\circ}\text{F}$	\pm 1.5 $^{\circ}\text{F}$

* Appearance and specifications listed in this brochure are subject to change without notice.

1606-PM1053