

PM2.5, %RH, Temp.

AIR QUALITY MONITOR

Model : PM-1053

ISO-9001, CE, IEC1010

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02-2389-0101



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The Art of Measurement

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FEATURE

- * 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°C, °C/°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

GENERAL SPECIFICATION

| | |
|-----------------------|---|
| 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°C (32 to 122°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. * Replacement air filter, AF-01. |

ELECTRICAL SPECIFICATIONS (23± 5 °C)

PM2.5 (Particulate matter)

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

Humidity

| Range | Resolution | Accuracy |
|---------------|------------|-----------------------|
| 5 % to 95 %RH | 0.1 %RH | < 70 %RH: ± 3 %RH |

Temperature

| Range | Resolution | Accuracy |
|---------------------|------------|--------------|
| 0.0 °C to 50.0 °C | 0.1 °C | ± 0.8 °C |
| 32.0 °F to 122.0 °F | 0.1 °F | ± 1.5 °F |

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

PM-1053+1606

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