### SD card real time data recorder PM2.5, CO2, %RH, Temp., Barometer

## AIR QUALITY MONITOR/RECORDER Model : PM-1064SD ISO-9001, CE, IEC1010







# LUTRON ELECTRONIC

The Art of Measurement

#### PM2.5, CO2, %RH, Temp., Barometer AIR QUALITY MONITOR/RECORDER Model : PM-1064SD

F	EATURES
*	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 µ g/m^3, Humidity : 5 to 95 %RH, Temperature : 0 to 50 ℃, ℃/°F.
	CO2 : 0 to 10,000 ppm, Barometer : 10 to 1100 hPa, mmHg, inHg.
*	PM2.5 time weighted average reading.
*	Data hold, Record(Max,Min)
*	Alarm setting with the beeper sound output.
*	Health index (0-9) detection and alarm.
*	Built-in clock and Calendar, real time data record with SD memory card, sampling time can
	be set from 1 second to 3600 seconds. Just slot the SD card into the computer, all the
	measured values with the time information ( year, month, data, hour, minute, second ) can
	be downloaded to the Excel directly, then user can make the further data analysis by
	themselves.
*	Manual data record is available, can set the different position(location) No.(1 to 99).
*	SD card capacity : 1GB to 32GB.
*	Dot matrix LCD display.
*	Power by UM3/AA(1.5V) X 6 batteries or DC 9V adapter
*	RS232/USB PC computer interface

#### SPECIFICATIONS

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 : 0 to 250 µ g/m^3, Humidity : 5 to 95 %RH,
	CO2 : 0 to 10,000 ppm, Barometer : 10 to 1100 hPa,
	Temperature : 0 to 50 °C, °C /°F.
Over-range	* LCD display show " OL "
	* The data save into the Micro SD card will show " 999 "
	(overleap the decimal point).
Data Hold	Freezes displayed reading.
Memory Recall	Maximum & Minimum value.
Data Recording	SD memory card (1 GB to 32 GB).
Sampling Time	Approx. 1 second.
Datalogger	* Real time data logger, saved the data into Micro SD memory card
	and down load the all the measured value with the time information (
	year/month/date/ hour/minute/second ) down load to the Excel.
	* Sampling time for data logger :
	Auto: 2 seconds to 3600 seconds.
	Manual: Push the data logger button once will save data one time.
	@ Set the sampling time to 0 second.
	@ Manual mode, can also select the 1 to 99 position.
	* When the system detects micro SD format does not match
	with the Machine that will be mandatory for reformatting to
	ensure that data records can be normal.
	* Data error no. : ≤ 0.1% no. of total saved data typically.
Data Output	* Computer interface.
USB/RS232	* 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	0 to 50 $^\circ \rm C$ ( 32 to 122 $^\circ \rm F$ ).
temperature	
Operating	Less than 80% R.H
humidity	
Power Supply	* DC 1.5V, AA (UM-3) Battery X 6 PCs
	(Alkaline or heavy-duty battery).
	* AC to DC 9V power adapter
Power	DC 135 mA approximately.
consumption	Backlight ON approximately DC 150 mA.
Weight	385 g/0.85 LB.
Dimension	164 x 93 x 72 mm ( 6.5 x 3.7 x 2.8 inch ).
	* Dimension is for the meter only ( without terminals ).
Accessories	* Instruction manual 1 PC
included	* AC to DC 9V power adapter 1 PC
Optional	* SD memory card ( 4 GB ).
Accessories	* USB cable, USB-01.
	* RS232 cable, UPCB-02.
	* Data Acquisition software, SW-U801-WIN, SW-E802.

#### Electrical SPECIFICATIONS (23 ± 5 ℃)

#### PM2.5 (Particulate matter.)

Range	Resolution	Accuracy
0 to 250 µ g/m^3	1μg/m^3	± (10 % reading ± 20µ g/m^3)
Humidity		
Range	Resolution	Accuracy
5 % to 95 %RH	0.1 %RH	< 70 %RH: ± 3 %RH
Temperature	Decelution	A
Range	Resolution	Accuracy
	Resolution   0.1 ℃   0.1 °F	Accuracy ± 0.8 ℃

#### CO2(Carbon dioxide)

Range	Resolution	Accuracy
0 to 10000 ppm	1 ppm	± 40 ppm, ≦ 1000 ppm
		± (50 ppm + 3% of reading)
		> 1000 ppm ≦ 3000 ppm
		± (50 ppm + 5% of reading)
		> 3000 ppm ≦ 10000 ppm
		Repeatability:
		± 20 ppm
		> 3000 ppm ≦ 10000 ppm

Barometric pressure (Barometer)							
Unit	Range	Resolution	Accuracy				
hPa	10.0 to 999.9	0.1 hPa	± 1.5 hPa				
	1000 to 1100	1 hPa	± 2 hPa				
mmHg	7.5 to 825.0	0.1mmHg	± 1.2 mmHg				
inHg	0.29 to 32.48	0.01inHg	± 0.05 inHg				

\* Appearance and specifications listed in this brochure are subject to change without notice. 1512-PM1064SD