SD Card real time data logger, Patent

HUMIDITY/BAROMETER/TEMP. MONITOR

Model : MHB-382SD

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FEATURES

* Monitor with real time data logger, save the measuring data along the time information (year, month, date, minute, second) into the SD memory card and can be down load to the Excel, extra software is no need. user can make the further data or graphic analysis by themselves.	
* Show Humidity, Temperature and Barometer value in the same LCD.	
* 0.1 %RH resolution for the humidity reading, 0.1 degree resolution for the Temp. reading.	
* Used the precision capacitance type humidity sensor, professional and high accuracy for humidity measurement.	
* Professional barometer, unit : hPa, mmHg, inHg.	
* SD card capacity : 1 GB to 16 GB.	
* Large LCD display, easy readout.	
* Microcomputer circuit, high reliability.	
* Low power consumption and long battery life when use battery power.	
* DC 1.5V (UM-4, AAA) battery x 6 PCs or DC 9V adapter in.	
* RS232/USB computer interface.	
* Patented	

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 60 mm x 50 mm	
Measurement	Humidity, Temperature and Barometer	
Memory Card	SD memory card. 1 G to 16 G.	
Datalogger Sampling Time	Save mode 1	60 seconds.
	Save mode 2	30 seconds.
	Save mode 3	5 seconds.
	AC power	5 seconds.
Advanced setting	* Set clock time (Year/Month/Date, Hour/Minute/ Second) * Decimal point of SD card setting * Set temperature unit to ℃ or ℉ * Set sampling time mode (power consumption mode). * SD memory card Format * Set save mode type	
Update Time of Display	Approx. 1 second if measuring data is changed.	
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.	

Operating Temperature	0 to 50 ℃.
Operating Humidity	Less than 85% R.H.
Power Supply	*.Alkaline or heavy duty DC 1.5 V battery (UM4, AAA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power adapter is optional).
Save mode/ Battery life	Save mode 1	90 days approximately
	Save mode 2	60 days approximately
	Save mode 3	30 days approximately

<table>
<tr><td colspan="2">* Battery power
* The above value is specified under the meter is used the Alkaline battery, power capacity is > 300 mAH.</td></tr>
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Weight	240 g/0.53 LB.
Dimension	132 x 80 x 32 mm (5.2 x 3.1 x 1.3 inch)
Accessories Included	Instruction manual...........................1 PC
Optional Accessories	SD Card (1 GB) SD Card (2 GB) AC to DC 9V adapter. USB cable, USB-01. RS232 cable, UPCB-02. Data Acquisition software, SW-U801-WIN.

ELECTRICAL SPECIFICATIONS (23± 5 ℃)

Humidity

Range	10 % to 95 % R.H.
Resolution	0.1 % R.H.

Accuracy	≧70% RH :
	   ± (3% reading + 1% RH).
	 < 70% RH :
	   ± 3% RH.

Temperature

Range	0 ℃ to 50 ℃,32 ℉ to 122 ℉.
Resolution	0.1 degree
Accuracy	℃ - 0.8 ℃. ℉ - 1.5 ℉.

Barometer

Measurement	Range	Resolution	Accuracy @ reading
hPa	10.0 to 999.9	0.1	± 1.5 hPa
	1000 to 1100	1	± 2 hPa
mmHg	7.5 to 825.0	0.1	± 1.2 mmHg
inHg	0.29 to 32.48	0.01	± 0.05 inHg

* Appearance and specifications listed in this brochure are subject to change without notice.   0909-MHB382SD