SD Card real time data logger, Patent

HUMIDITY/BAROMETER/TEMP. MONITOR

Model: MHB-382SD *ISO-9001, CE, IEC1010*









The Art of Measurement

SD Card real time data logger

HUMIDITY/BAROMETER/TEMP. MONITOR

Model: MHB-382SD

FEATURES

 * Monitor with real time data logger, save the measuring data along the time information (year, month, date, hour, 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 		
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•		adapter in.
* Patented		
	*	RS232/USB computer interface.

0 "	0.1.50%		
Operating	0 to 50 ℃.		
Temperature			
Operating	Less than 90 % R.H.		
Humidity			
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).		
Battery life	If use the new battery (alkaline type)		
	and sampling time set to 60 seconds,		
	the battery life will be > one month		
	typically.		
Weight	285 g/0.63 LB.		
Dimension	132 x 80 x 32 mm		
	(5.2 x 3.1 x 1.3 inch)		
Accessories	Instruction manual1 PC		
Included	Hanging unit (with sticker)1 PC		
Optional	SD Card (2 GB)		
Accessories	AC to DC 9V adapter.		
	USB cable, USB-01.		
	RS232 cable, UPCB-02.		
	Data Acquisition software, SW-U801-WIN.		

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 GB to 16 GB.			
Datalogger	5/10/30/60/120/300/600 seconds			
Sampling Time	or Auto.			
	* Default sampling time is 60 seconds.			
	* The " Auto " sampling . means when			
	the measuring value is changed (>			
	\pm 1 %RH or $>$ \pm 1 $^{\circ}$ or $>$ \pm 1			
	hPa) will save the data one time only.			
Advanced * SD memory card Format				
setting	* Set clock time (Year/Month/Date,			
	Hour/Minute/ Second)			
	* Set sampling time value			
	* Set beep sound ON/OFF.			
	* Decimal point of SD card setting			
	* Set temperature unit to $^\circ\!$			
	* Set RS232 out ON/OFF.			
	* Set the unit of Barometer			
Update Time	Approx. 1 second if measuring data			
of Display	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.			

ELECTRICAL SPECIFICATIONS (23 \pm 5 $^{\circ}$)

Humidity

Range	10 % to 90 % R.H.		
Resolution	0.1 % R.H.		
Accuracy	≥70% RH :		
	± (4% reading + 1 % RH).		
	< 70% RH :		
	± 4% RH.		

Temperature

Range	0 ℃ to 50 ℃,32 °F to 122 °F.
Resolution	0.1 degree
Accuracy	°C - ± 0.8 °C.
	°F - ± 1.5 °F.

Barometer

Measurement	Range	Resolution	Accuracy @ reading
hPa	10.0 to 999.9	0.1	± 2 hPa
	1000 to 1100	1	± 3 hPa
mmHg	7.5 to 825.0	0.1	± 1.5 mmHg
inHg	0.29 to 32.48	0.01	± 0.1 inHg

PATENT	CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0		TAIWAN : M 358970 M 359043
	Germany: Nr. 20 2008 016 337.4	JAPAN: 3151214	U.S.A. : Pending

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