

*SD Card real time data logger, Patent*

# **HUMIDITY/TEMP. MONITOR**

**Model : MHT-381SD**

**ISO-9001, CE, IEC1010**



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***The Art of Measurement***

# SD Card real time data logger

## HUMIDITY/TEMP. MONITOR

### Model : MHT-381SD

#### 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 and Temperature 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.
* SD card capacity : 1 GB to 16 GB.
* Sampling adjustment : 5/10/30/60/120/300/600 seconds and auto function.
* 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 and Temperature
Memory Card	SD memory card, 1 GB to 16 GB.
Datalogger Sampling Time	5/10/30/60/120/300/600 seconds or Auto. * Default sampling time is 60 seconds. * The " Auto " sampling . means when the measuring value is changed ( > ± 1 %RH or > ± 1 °C ) will save the data one time only.
Data error no.	≤ 0.1 % no. of total saved data typically.
Advanced setting	<ul style="list-style-type: none"> <li>* SD memory card Format</li> <li>* Set clock time ( Year/Month/Date, Hour/Minute/Second )</li> <li>* Set sampling time</li> <li>* Set beeper sound ON/OFF</li> <li>* Set SD card Decimal character</li> <li>* Select the Temp. unit to °C or °F</li> <li>* Set RS232 data output ON/OFF</li> </ul>

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 °C .
Operating Humidity	Less than 90 %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 ).
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	282 g/0.62 LB.
Dimension	132 x 80 x 32 mm ( 5.2 x 3.1 x 1.3 inch )
Accessories Included	Instruction manual.....1 PC Hanging unit ( with sticker )..... 1 PC
Optional Accessories	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 °C)

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

<b>Temperature</b>	
Range	0 °C to 50 °C, 32 °F to 122 °F.
Resolution	0.1 degree
Accuracy	°C - ± 0.8 °C. °F - ± 1.5 °F.

PATENT	CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 Germany : Nr. 20 2008 016 337.4	TAIWAN : M 358970 M 359043 JAPAN : 3151214	U.S.A. : Pending
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\* Appearance and specifications listed in this brochure are subject to change without notice.