

# HUMIDITY / BAROMETER / TEMPERATURE MONITOR

## Model : MHB-382SD

### FEATURES

- \* 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 16GB ( Optional )
- \* Large LCD display, easy readout



### SPECIFICATION

#### Humidity

Range : 10% to 90% RH  
Resolution : 0.1 % RH  
Accuracy :  $\geq 70\% \text{ RH} : \pm ( 4\% \text{ reading} + 1\% \text{ RH} )$   
 $< 70\% \text{ RH} : \pm 4\% \text{ RH}$

#### Temperature

Range :  $0^{\circ} \text{C}$  to  $50^{\circ} \text{C}$  ,  $^{\circ} \text{F}$  to  $122^{\circ} \text{F}$   
Resolution : 0.1 degree  
Accuracy :  $^{\circ} \text{C} - \pm 0.8^{\circ} \text{C}$  ,  $^{\circ} \text{F} - \pm 1.5^{\circ} \text{F}$

#### Barometer

Measurement	Range	Resolution	Accuracy @ Reading
hpa	10.00 to 999.9	0.1	$\pm 2 \text{ hpa}$
	1000 to 1100	1	$\pm 3 \text{ hpa}$
mmhg	7.5 to 825.0	0.1	$\pm 1.5 \text{ mmHg}$
inHg	0.29 to 32.48	0.01	$\pm 0.1 \text{ inHg}$

## GENERAL SPECIFICATION

Circuit	:	Custom one-chip of microprocessor LSI circuit
Display	:	LCD size: 60mm x 50mm
Measurement	:	Humidity, Temperature and Barometer
Memory	:	SD memory card, 1GB to 16GB (Optional)
Datalogger sampling Time	:	5/10/30/60/120/300/600 seconds or Auto <ul style="list-style-type: none"> <li>• Default sampling time is 60 seconds</li> <li>• The "Auto" sampling. Means when the measuring value is changed (&gt; <math>\pm 1\%</math> RH or &gt; <math>\pm 1^{\circ}\text{C}</math> or <math>\pm 1</math> hpa) will save the data one time only.</li> </ul>
Advanced setting	:	SD memory card format, Set clock time 9Year/month/date/ Hour/ minute / second Set sampling time value, Set beep sound On/Off, Decimal point of SD card setting Set Temperature unit to $^{\circ}\text{C}$ of $^{\circ}\text{F}$ , Set RS232 out On/Off, Set the unit or Barometer
Update Time of display	:	Approx. 1 Second If Measuring Data is Changed
Data Output	:	RS232 / USB PC computer interface <ul style="list-style-type: none"> <li>• Connect the optional Rs232 cable UPCB -02 will get the RS232 plug.</li> <li>• Connect the optional USB cable USB - 01 will get the USB plug</li> </ul>
Operating Temperature	:	0 to $50^{\circ}\text{C}$
Operating Humidity	:	Less than 90 % RH
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 80x32mm
Accessories Included	:	Instruction manual .....1PC Hanging unit ( with sticker).....1PC
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