

SD Card real time data logger, Patent

HUMIDITY/BAROMETER/TEMP. MONITOR

Model : MHB-382SD

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

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 |

| | |
|-----------------------|---|
| 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 | 285 g/0.63 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. |

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 Sampling Time | 5/10/30/60/120/300/600 seconds or Auto. * <i>Default sampling time is 60 seconds.</i> * <i>The " Auto " sampling . means when the measuring value is changed (> ± 1 %RH or > ± 1 °C or > ± 1 hPa) will save the data one time only.</i> |
| Data error no. | ≤ 0.1 % no. of total saved data typically. |
| Advanced setting | * SD memory card Format * 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 °C or °F * Set RS232 out ON/OFF. * Set the unit of Barometer |
| Update Time of Display | Approx. 1 second if measuring data is changed. |
| Data Output | RS 232/USB PC computer interface. * <i>Connect the optional RS232 cable UPCB-02 will get the RS232 plug.</i> * <i>Connect the optional USB cable USB-01 will get the USB plug.</i> |

ELECTRICAL SPECIFICATIONS (23± 5 °C)

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 °C to 50 °C, 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.

1006-MHB382SD

