SD card real time recorder %RH, Wet bulb, Dew point, Temp., type K/J Temp

PRECISION HYGROMETER

Model: HT-3027SD *ISO-9001, CE, IEC1010*













PRECISION HYGROMETER

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FEATURES

| * Precision hygrometer to measure the Humidity (%RH), |
|---|
| Wet bulb Temp., Dew point Temp., Temperature value at |
| the same time and show all the 4 kind reading value in the |
| same LCD. |
| * Type K, Type J thermocouple thermometer. |
| * Fast humidity measuring response time. |
| * Separate probe, easy for operation of different |
| measurement environment. |
| * Real time SD memory card Datalogger, it Built-in Clock |
| and Calendar, real time data recorder, sampling time set |
| from 1 second to 3600 seconds. |
| * Manual datalogger is available (set the sampling |
| time to 0), during execute the manual datalogger |
| function, it can set the different position (location) No. |
| (position 1 to position 99). |
| * Innovation and easy operation, computer is not |
| need to setup extra software, after execute |
| datalogger, just take away the SD card from the |
| meter and plug in the SD card into the computer, |
| it can down load the all the measured value with |
| the time information (year/month/date/ |
| hour/minute/second) to the Excel directly, then |
| user can make the further data or graphic |
| analysis by themselves. |
| * SD card capacity: 1 GB to 16 GB. |
| * LCD with backlight, easy reading. |
| * Can default auto power off or manual power off. |
| * Data hold, record max. and min. reading. |
| * Microcomputer circuit, high accuracy. |
| * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter. |
| * RS232/USB PC COMPUTER interface. |
| |

| GENERAL | SPECIFICATIONS |
|-----------|-----------------------|
| OLIVEINAL | 3F LOTT TOATTONS |

| Circuit | | e-chip of microprocessor LSI | |
|---------------------|----------------------------------|--------------------------------------|--|
| | circuit. | | |
| DisplayLCD size : | 52 mm x 3 | 8 mm | |
| 2.001.07.202 0.20 1 | | reen backlight (ON/OFF). | |
| Measurement | | emp.: %RH/°C or °F. | |
| Unit | | (Humidity) : °C or °F. | |
| Offic | | Humidity) : °C or °F. | |
| | | nermometer: °C or °F. | |
| Datalogger | Auto | 1 second to 3600 seconds | |
| Sampling Time | Auto | @ Sampling time can set to 1 second, | |
| Setting range | | but memory data may loss. | |
| Setting range | Manual | Push the data logger button | |
| | iviariuai | | |
| | | once will save data one time. | |
| | | @ Set the sampling time to | |
| | | 0 second. | |
| | | @ Manual mode, can also select the | |
| | | 1 to 99 position (Location) no. | |
| Memory Card | | y card. 1 G to 16 G. | |
| Advanced | | time (Year/Month/Date, | |
| setting | | ite/ Second) | |
| | | oint of SD card setting | |
| | | er OFF management | |
| | | Sound ON/OFF | |
| | * Set therm | ometer type to Type K or Type J | |
| | * Set tempe | rature unit to °C or °F | |
| | * Set sampli | ing time | |
| | | ry card Format | |
| Temperature | Automatic | temp. compensation for the | |
| Compensation | humidity fu | inction and the type K/J | |
| | thermomet | er. | |
| Data Hold | Freeze the | display reading. | |
| Memory Recall | Maximum 8 | & Minimum value. | |
| Sampling Time | Approx. 1 s | second. | |
| of Display | | | |
| Data Output | RS 232/US | B PC computer interface. | |
| | * Connect t | he optional RS232 cable | |
| | | will get the RS232 plug. | |
| | * Connect the optional USB cable | | |
| | | vill get the USB plug. | |
| Operating | 0 to 50 ℃. | | |
| Temperature | | | |
| Operating | Less than 8 | 35% R.H. | |
| Humidity | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Power Supply | * Alkaline or heavy duty DC 1.5 V battery |
|---------------|---|
| | (UM3, AA) x 6 PCs, or equivalent. |
| | * ADC 9V adapter input. (AC/DC power |
| | adapter is optional). |
| Power Current | Normal operation (w/o SD card save |
| | data and LCD Backlight is OFF) : |
| | Approx. DC 3.5 mA. |
| | When SD card save the data but and |
| | LCD Backlight is OFF) : |
| | Approx. DC 28 mA. |
| | * Af LCD backlight on, the power |
| | consumption will increase approx. |
| | 12 mA. |
| Weight | 489 g/1.08 LB. |
| Dimension | 177 x 68 x 45 mm |
| | (7.0 x 2.7x 1.9 inch) |
| Accessories | * Instruction manual1 PC |
| Included | * Humidity/Temp. probe 1 PC |
| | * Soft carrying case (CA-05A)1 PC |
| Optional | SD Card (4 GB) |
| Accessories | Type K thermocouple probe. |
| | AC to DC 9V adapter. |
| | USB power to DC 9V converter. |
| | USB cable, USB-01. |
| | RS232 cable, UPCB-02. |
| | Data acquisition software, SW-U801-WIN. |
| | Excel data acquisition software, SW-E802. |
| | Hard carrying case, CA-06. |
| | |

ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

Humidity/ Temperature

| | Range | 5 % to 95 % R.H. |
|-------------|------------------|--------------------------------|
| Humidity | Resolution | 0.01 % R.H. |
| | Accuracy | ±2% R.H. |
| | | |
| | | @ 10 °C to 40 °C |
| | | |
| | Range | 0 °C to 50 °C,32 °F to 122 °F. |
| Temperature | Resolution | 0.01 degree |
| | Accuracy | °C ± 0.5 °C. |
| | @ 5 °C to 35 °C. | °F ± 1.0 °F. |

Dew Point (Humidity)

| $^{\circ}\!\mathbb{C}$ | Range | -25.3 °C to 48.9 °C |
|------------------------|------------|-----------------------|
| | Resolution | 0.01 ℃ |
| °F | Range | -13.5 °F to 120.1 °F. |
| | Resolution | 0.01 °F. |

Remark :

- * Dew Point display value is calculated from the Humidity/Temp. measurement automatically.
 * The Dew Point accuracy is sum accuracy value of
- The Dew Point accuracy is sum accuracy value of Humidity & Temperature measurement..

Wet bulb (Humidity)

| $^{\circ}\mathbb{C}$ | Range | -21.6 °C to 50.0 °C |
|----------------------|------------|----------------------|
| | Resolution | 0.01 ℃ |
| °F | Range | -6.9 °F to 122.0 °F. |
| | Resolution | 0.01 °F. |

Remark

- * Wet bulb display value is calculated from the Humidity/Temp. measurement automatically.
- * The Dew Point accuracy is sum accuracy value of Humidity & Temperature measurement..

Type K/J thermometer

| Sensor | Resolution | Range | Accuracy |
|--------|------------|---------------------|--------------------|
| Туре | | | |
| Туре К | 0.1 ℃ | -50.0 to 1300.0 ℃ | ± (0.2 % + 0.5 °C) |
| | | -50.1 to -100.0 ℃ | ± (0.2 % + 1 °C) |
| | 0.1 °F | -58.0 to 2372.0 °F | ± (0.2 % + 1 °F) |
| | | -58.1 to -148.0 °F | ± (0.2 % + 1.8 °F) |
| Type J | 0.1 ℃ | -50.0 to 1200.0 ℃ | ± (0.2 % + 0.5 °C) |
| | | -50.1 to -100.0 ℃ | ± (0.2 % + 1 °C) |
| | 0.1 °F | -58.0 to 2192.0 °F | ± (0.2 % + 1 °F) |
| | | -58 1 to -1/18 0 °F | ± (02% ± 18°E) |

| PATENT | CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 | JAPAN: 3151214 |
|--------|--|----------------|
| | Germany: Nr. 20 2008 016 337.4 | |

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