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

PRECISION HYGROMETER

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











The Art of Measurement

PRECISION HYGROMETER

Model: HT-3027SD

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

Circuit		e-chip of microprocessor LSI	
Circuit	circuit.	e-criip of filicroprocessor L31	
Disaleud CD sies v		0	
DisplayLCD size :	52 mm x 38 mm		
	LCD with green backlight (ON/OFF).		
Measurement	Humidity/Temp. : %RH/°C or °F.		
Unit	Dew point (Humidity) : $^{\circ}\mathbb{C}$ or $^{\circ}\mathbb{F}$.		
	Wet bulb (Humidity) : °C or °F.		
		nermometer : °C or °F.	
Datalogger	Auto 1 second to 3600 seconds		
Sampling Time		@ Sampling time can set to 1 second,	
Setting range		but memory data may loss.	
	Manual	Push the data logger button	
		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	SD memory card. 1 G to 16 G.		
Advanced	* Set clock time (Year/Month/Date,		
setting	Hour/Minute/ Second)		
Setting	* Decimal point of SD card setting		
	* Auto power OFF management		
	* Set beep Sound ON/OFF		
	* Set thermometer type to Type K or Type J		
	* Set thermometer type to Type K or Type J * Set temperature unit to °C or °F		
	* Set sampling time		
Tomporatura	* SD memory card Format		
Temperature	Automatic temp. compensation for the		
Compensation	humidity function and the type K/J		
D. L. H. H.	thermometer.		
Data Hold	Freeze the display reading.		
Memory Recall	Maximum & Minimum value.		
Sampling Time	Approx. 1 second.		
of Display			
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	0 to 50 ℃.		
Temperature			
Operating	Less than 85% R.H.		
Humidity			
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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.		
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ELECTRICAL SPECIFICATIONS (23±5℃)

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			
Type K	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)

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