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.
*	
*	Data hold, record max. and min. reading.
*	wherecomputer circuit, high accuracy.
*	Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
*	

GENERAL SPECIFICATIONS

GENERAL SPECI	FICATION	<u> </u>		
Circuit		e-chip of microprocessor LSI		
	circuit.			
Display	LCD size: 52 mm x 38 mm			
		LCD with green backlight (ON/OFF).		
Measurement	Humidity/T	Humidity/Temp.: %RH/°C or °F.		
Unit	Dew point (Humidity) : °C or °F.			
	Wet bulb (Humidity) : °C or °F.			
	Type K/J thermometer : °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.		
	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 memor	y card. 1 G to 16 G.		
Advanced		time (Year/Month/Date,		
setting		ite/ Second)		
Joething	1	oint of SD card setting		
	* Auto power OFF management * Set beep Sound ON/OFF			
	* Set thermometer type to Type K or Type J			
	* Set temperature unit to °C or °F			
	* Set sampling time			
	* SD memory card Format			
Temperature	Automatic temp. compensation for the			
Compensation	humidity function and the type K/J			
	thermometer.			
Data Hold	Freeze the display reading.			
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1 second.			
of Display	'''			
Data Output	RS 232/US	B PC computer interface.		
Data Gatpat	* Connect the optional RS232 cable			
	UPCB-02 will get the RS232 plug.			
	* Connect the optional USB cable			
		,		
Onerating		vill get the USB plug.		
Operating	0 to 50 ℃.			
Temperature				
Operating				
Humidity				
1	1			

* Alkaline or heavy duty DC 1.5 V battery		
(UM3, AA) x 6 PCs, or equivalent.		
*.DC 9V adapter input. (AC/DC power		
adapter is optional).		
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.		
* . If LCD backlight on, the power		
consumption will increase approx.		
12 mA.		
489 g/1.08 LB.		
177 x 68 x 45 mm		
(7.0 x 2.7x 1.9 inch)		
* Instruction manual1 PC		
* Humidity/Temp. probe 1 PC		
* Soft carrying case (CA-05A)1 PC		
SD Card (4 GB)		
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 ℃)

Humidity/ Temperature

	Range	5 % to 95 % R.H.	
Humidity	Resolution	0.01 % R.H.	
	Accuracy	± 2% I	R.H.
		@ 20 %	6RH to 80 %RH
	@ 10 °C to 40 °C		C to 40 ℃
	Range	0 °C to 50 °C,32 °F to 122 °F.	
Temperature	Resolution	0.01 degree	
	Accuracy	$^{\circ}$ C	± 0.5 °C.
	@ 5 °C to 35 °C.	°F	± 1.0 °F.

Dew Point (Humidity)

°C Range -2		-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

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 °E	± (02% ± 18°E)

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