



*ISO-9001, CE, IEC1010* 

# PRECISION HYGROMETER

Model : HT-3027SD

REC POWER FUNCTION SET LOG TIME ENTER SD Card Data Recorder PRECISION HYGROMETER DEW point, WET bulb, Type K/J Thermomete **/11**...... HT-3027SD







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# SD card real time data recorder %RH, Welt bulb, Dew point, Type K/J Temp. PRECISION HYGROMETER



Model : HT-3027SD

#### FEATURES

	LATORES			
*	Humidity/Temp., Dew point (Humidity), Wet bulb (			
	Humidity ), Type K/J thermometer, 4 kinds			
	measurement are combined into one meter, intelligent			
	and professional.			
*	Type K, Type J thermocouple thermometer.			
*	Fast humidity measuring response time.			
*	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, thenuser can			
	make the further data or graphic analysis by themselves.			
*	SD card capacity : 1 GB to 16 GB.			
*	LCD with green light 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.			
*	Separate probe, easy for operation of different			
	measurement environment.			

#### GENERAL SPECIFICATIONS

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Circuit	Custom one-chip of microprocessor LSI		
	circuit.		
Display	LCD size : 52 mm x 38 mm		
	LCD with green backlight ( ON/OFF ).		
Measurement	Humidity/Temp. : %RH/°C or °F.		
Unit	Dew point (Humidity): ℃ or °F.		
	Wet bulb (Humidity) : °C or °F.		
	Type K/J thermometer : °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.		
ootting rungo	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			
setting	Hour/Minute/ Second )		
	* Set sampling time		
	* Auto power OFF management		
	* Set beep Sound ON/OFF		
	* Decimal point of SD card setting		
	* SD memory card Format		
	* Set temperature unit to °C or °F		
T	* Set thermometer type to Type K or Type J		
Temperature	Automatic temp. compensation for the humidity		
Compensation			
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			
Power Supply	* 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.)		

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. <i>Reemark</i> : * If 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)	
Standard	* Instruction manual 1 PC	
Accessories	* Humidity/Temp. probe1 PC	
Included	* Soft carrying case (CA-05A)1 PC	
Optional	SD Card ( 2 GB )	
Accessories	Type K thermocouple probe.	
	AC to DC 9V adapter.	
	USB cable, USB-01.	
	RS232 cable, UPCB-02.	
	Data Acquisition software, SW-U801-WIN.	
	Hard carrying case, CA-06	

### ELECTRICAL SPECIFICATIONS (23±5 °C)

#### Humidity/ Temperature

	Range	5 % to 95 % R.H.	
Humidity	Resolution	0.1 % R.H.	
	Accuracy	≧70% RH :	
	_	± (3% reading + 1% RH).	
		< 70% RH :	
		± 3% RH.	
	Range	0 ℃ to 50 ℃,32 °F to 122 °F.	
Temperature	Resolution	0.1 degree	
	Accuracy	°C ± 0.8 °C.	
		$^{\circ}F$ ± 1.5 $^{\circ}F$ .	

#### Dew Point (Humidity)

°C	Range	-25.3 ℃ to 48.9 ℃	
	Resolution	0.1 °C	
°F	Range	-13.5 °F to 120.1 °F.	
	Resolution	0.1 °F.	
Remark :			
* Down Deint diamlaw walks is calculated from the			

\* 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 )

°C	Range	-21.6 ℃ to 50.0 ℃	
	Resolution	0.1 °C	
°F	Range	-6.9 °F to 122.0 °F.	
	Resolution	0.1 °F.	
Remark :			
* Wet bulb display value is calculated from the			
Humidity/Temp. measurement automatically.			
* The Welt bulb 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 °C	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)
Type J	0.1 ℃	-50.0 to 1200.0 °C	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2192.0 °F	± (0.4 % + 1 °F)
		-58 1 to -148 0 °F	+ (0.4 % + 1.8 °F)

@ Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz.

1303-HT3027SD

Adapter is optional ).
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