

SD Card real time data recorder

NO CONNECT WIRE HUMIDITY PROBE

HUMIDITY RECEIVER METER

Model : HR-3023SD

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

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FEATURES

* Environment instrument, multi-function, all in one.
* Humidity/Temp. meter,
* Humidity measurement can show %RH and Temp., Dew , Wet Temp.
* Temp. display unit default to °C or °F.
* Meter can default auto power off or manual power off.
* 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 green light backlight, easy reading.
* Can default auto power off or manual power off.
* Data hold, record max. and min. reading.
* Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
* RS232/USB PC COMPUTER interface.
* Available for the HVAC applications.

General Specifications

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	TFT LCD size : 52 mm x 38 mm
Measurement Unit	* * Humidity/Temp. meter *
Datalogger Sampling Time Setting range	Auto 1 second to 3600 seconds @ For anemometer measurement, the sampling time setting value should be ≥ 2 seconds. @ Sampling time can set to 1 second, 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 GB to 16 GB.
Advanced setting	* Set clock time (Year/Month/Date, Hour/Minute/ Second) * Decimal point of SD card setting * Auto power OFF management * Set beep Sound ON/OFF * Set temperature unit to °C or °F * Set sampling time * SD memory card Format
Temperature Compensation	Automatic temp. compensation for the Anemometer function and the type K/J thermometer.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of Display	Approx. 1 second.
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 Temperature	0 to 50 °C.
Operating Humidity	Less than 85% R.H.
Power Supply meter	* Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or DC 9V adapter input. (AC/DC power adapter is optional).
Power Supply probe	* Alkaline or heavy duty DC 1.5 V battery (UM4, AAA) x 4 PCs * Support type c socket
Power Current Meter	Normal operation (w/o SD card save data) : Approx. DC 55mA. When SD card save the data : Approx. DC 80 mA.
Power Current Probe	Approx. DC 15 mA.

Weight	Meter : 232 g/ 0.51 LB. Probe : 93 g/0.204 LB
Dimension	Meter 181 x 77 x 45 mm. Probe 168 x 52 x 28 mm.
Accessories Included	* Instruction manual..... 1 PC * Humidity Probe, RHP-01..... 1 PC
Accessories optional	* Hard carrying case (CA-06)..... 1 PC

Electrical Specification (23 ±5 ℃)

Humidity/Temperature

Humidity	Range	5 % to 95 % R.H.
	Resolution	0.1 % R.H.
	Accuracy	$\geq 70\% \text{ RH} : \pm(3\% \text{ reading} + 1\% \text{ RH}).$ $< 70\% \text{ RH} : \pm 3\% \text{ RH}.$
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.

Dew Point Temp. (Humidity)

°C	Range	-25.3 °C to 48.9 °C
	Resolution	0.1 °C
°F	Range	-13.5 °F to 120.1 °F.
	Resolution	0.1 °F.

Wet bulb Temp. (Humidity)

°C	Range	-21.6 °C to 50.0 °C
	Resolution	0.1 °C
°F	Range	-6.9 °F to 122.0 °F.
	Resolution	0.1 °F.

* Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.