HUMIDITY ONTENT METER

Model: MS-7012SD *ISO-9001, CE, IEC1010*











LUTRON ELECTRONIC

+TYPE K/J Temp.

HUMIDITY CONTENT METER

Model: MS-7012SD

FEATURES

	271.01120		
*	Professional Humidity content probe, used to measure		
	the humidity content value for the materials of Grain,		
	Corn, Rice. Cotton, Paper		
*	Stainless probe body, Heavy duty.		
*	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, 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.		
*	wherecompater circuit, riight accuracy.		
*	Tower by ownstruct 1.5 v) x o batteries of De 7v adapter.		
*	RS232/USB PC COMPUTER interface.		

CENIEDAI	CDECLE	ICATIONS

GENERAL SPEC	ILICALIO	NO .		
Circuit	Custom one-chip of microprocessor LSI			
Disales	circuit.			
Display		LCD size : 52 mm x 38 mm		
		LCD with green backlight (ON/OFF).		
Measurement		Temp. : %RH/ $^{\circ}$ C or $^{\circ}$ F.		
Unit		Dew point (Humidity) : °C or °F.		
	Wet bulb	(Humidity) : °C or °F.		
	Type K/J	ype 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.		
Jetting runge	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	SD memo	ry card. 1 G to 16 G.		
Advanced	* Set clo	ck time (Year/Month/Date,		
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 thermometer type to Type K or Type . * Set temperature unit to °C or °F			
Temperature	Automatic temp. compensation for the			
Compensation	humidity	function and the type K/J		
·	thermometer.			
Data Hold		e display reading.		
Memory Recall		Maximum & Minimum value.		
Sampling Time	Approx. 1 second.			
of Display	Дрргох. 1	second.		
Data Output	RS 232/U	SB 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	e or heavy duty DC 1.5 V battery		
(UM3, AA) x 6 PCs. or e		AA) x 6 PCs, or equivalent.		
	*.DC 9V adapter input. (AC/DC power			
		r is optional).		
auapter is optional j.				

ELECTRICAL SPECIFICATIONS (23±5 ℃)

Humidity/ Temperature

	4.		
	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 °C to 50 °C,32 °F to 122 °F.	
Temperature	Resolution	0.1 degree	
	Accuracy	°C ± 0.8 °C.	
		°F ± 1.5 °F.	

Dew Point (Humidity)

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

℃	Range	-21.6 ℃ to 50.0 ℃
	Resolution	0.1 ℃
°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 Type	Resolution	Range	Accuracy
Type K	0.1 ℃	-50.0 to 1300.0 °C -50.1 to -100.0 °C	± (0.4 % + 0.5 °C) ± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F -58.1 to -148.0 °F	± (0.4 % + 1 °F) ± (0.4 % + 1.8 °F)
Type J	0.1 ℃	-50.0 to 1200.0 °C -50.1 to -100.0 °C	± (0.4 % + 0.5 °C) ± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2192.0 °F -58.1 to -148.0 °F	± (0.4 % + 1 °F) ± (0.4 % + 1.8 °F)

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

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.

* If LCD backlight on, the power consumption will increase approx. 12 mA. Weight Meter 345 g/0.76 LB 362 g/0.79 LB Probe 182 x 73 x 47.5 mm Dimension Meter (7.1 x 2.9 x 1.9 inch) Humidity Probe length: 600 mm Probe head diameter: 10 mm Content Probe: Cable length: 1.5 meters Standard * Instruction manual...... 1 PC Accessories Humidity content probe, Included Optional MS71HEAD Accessories SD Card (2 GB) 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