type K/J Temp. HUMIDITY ONTENT METER

Model : MS-7012SD

ISO-9001, CE, IEC1010







LUTRON ELECTRONIC *The Art of Measurement*

+TYPE K/J Temp. **HUMIDITY CONTENT METER** Model : MS-7012SD

FFATURES

F	EATURES
*	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
L	and professional.
	Type K, Type J thermocouple thermometer.
	Fast humidity measuring response time.
*	Real time 3D memory card Datalogger, it Daint 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.
*	Leb 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.

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) : $^{\circ}$ C or $^{\circ}$ F.		
	Wet bulb (Humidity) : $^{\circ}$ C or $^{\circ}$ F.		
	Type K/J thermometer : $^{\circ}$ C or $^{\circ}$ F.		
Datalogger	Auto	1 second to 3600 seconds	
Sampling Time	late	@ Sampling time can set to 1 second,	
Setting range		but memory data may loss.	
Setting range	Manual		
	Iviariuai	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			
Advanced		time (Year/Month/Date,	
setting		nute/ Second)	
	* Set sampling time		
	* Auto power OFF management		
	* Set beep	Sound ON/OFF	
	* Decimal point of SD card setting		
	* SD mem	ory card Format	
	* Set thermometer type to Type K or Type J		
	* Set temperature unit to $^{\circ}C$ or $^{\circ}F$		
Temperature	Automatic temp. compensation for the		
Compensation	humidity function and the type K/J		
oomponoution	thermomet		
Data Hold			
Memory Recall	Freeze the display reading. Maximum & Minimum value.		
Sampling Time			
of Display		Second.	
Data Output	RS 232/US	B PC computer interface.	
	* Connect	the optional RS232 cable	
		will get the RS232 plug.	
		the optional USB cable	
		will get the USB plug.	
Operating			
Temperature			
Operating	Less than 8	85% R H	
Humidity		5570 K.H.	
Power Supply	* Alkaline	or heavy duty DC 1.5 V battery	
i onci ouppiy	(UM3, AA) x 6 PCs, or equivalent.		
		dapter input. (AC/DC power	
adapter is optional).			

Power Current	Normal operation (w/o SD card save			
	data and LC	D Backlight is OFF) :		
	Approx. DC 3.5 mA.			
	When SD ca	ard save the data but and		
	LCD Backlight is OFF) :			
	Approx. L	DC 28 mA.		
	* If LCD ba	cklight on, the power		
	consump	tion will increase approx.		
	12 mA.			
Weight	Meter	345 g/0.76 LB		
	Probe	362 g/0.79 LB.		
Dimension	Meter	182 x 73 x 47.5 mm		
		(7.1 x 2.9 x 1.9 inch)		
	Humidity	Probe length : 600 mm		
	Content	Probe head diameter : 10 mm		
	Probe:	Cable length : 1.5 meters		
Standard	* Instruction manual1 PC			
Accessories	* Humidity	 * Humidity content probe, 		
Included	MS-71P 1 Set			
Optional	* Probe sensing head with inner filter,			
Accessories	MS71HEAD			
	* SD Card.			
	 Type K thermocouple probe. 			
	* AC to DC 9V adapter.			
	* USB cable, USB-01.			
	* RS232 cable, UPCB-02.			
	* Data Acquisition software, SW-U801-WIN.			
	* Carrying	case.		

ELECTRICAL SPECIFICATIONS (23±5℃)

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 °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 ℃ to 48.9 ℃	
	Resolution	0.1 °C	
°F	Range	-13.5 °F to 120.1 °F.	
	Resolution	0.1 °F.	
Remark :			
* Dew Point display value is calculated from the			
1.1	User idit / Tommer encourse and established by		

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 Type	Resolution	Range	Accuracy
Туре К	0.1 °C	-50.0 to 1300.0 ℃ -50.1 to -100.0 ℃	± (0.4 % + 0.5 ℃) ± (0.4 % + 1 ℃)
	0.1 °F	-58.0 to 2372.0 °F -58.1 to -148.0 °F	± (0.4 % + 1 °F) ± (0.4 % + 1.8 °F)
Туре Ј	0.1 °C	-50.0 to 1200.0 ℃ -50.1 to -100.0 ℃	± (0.4 % + 0.5 ℃) ± (0.4 % + 1 ℃)
	0.1 °F	-58.0 to 2192.0 °F -58.1 to -148.0 °F	$\begin{array}{c} \pm (0.4\% + 1^{\circ}F) \\ \pm (0.4\% + 1.8^{\circ}F) \end{array}$

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

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