HUMIDITY CONTENT METER

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













The Art of Measurement

+TYPE K/J Temp.

HUMIDITY CONTENT METER

Model: MS-7012SD

FEATURES

*	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.				
*	Microcomputer circuit, high accuracy.				
	Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.				
*	RS232/USB PC COMPUTER interface.				

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Circuit	Custom one-chip of microprocessor LSI			
	circuit.			
Display	LCD size : 52 mm x 38 mm			
1, 19	LCD with green backlight (ON/OFF).			
Measurement	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	@ Sampling time can set to 1 second,			
Setting range	but memory data may loss.			
Setting range	Manual	Push the data logger button		
	iviariuai	once will save data one time.		
		l .		
		@ Set the sampling time to 0 second.		
		@ Manual mode, can also select the		
Managan Canal	CD	1 to 99 position (Location) no.		
Memory Card		ory card. 1 G to 16 G.		
Advanced	* Set clock time (Year/Month/Date,			
setting		linute/ Second)		
		npling time		
		* Auto power OFF management		
* Set beep Sound O				
		al point of SD card setting		
	* SD memory card Format			
	* Set thermometer type to Type K or Type J			
	* Set temperature unit to °C or °F			
Temperature	Automatic temp. compensation for the			
Compensation		function and the type K/J		
	thermom			
Data Hold	Freeze the display reading.			
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1	second.		
of Display				
Data Output	RS 232/U	SB PC computer interface.		
	* Connec	ct 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	2033 than 0070 K.H.			
Power Supply	*.Alkaline	e or heavy duty DC 1.5 V battery		
(UM3. AA) x 6 PCs		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			
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 Backligh	ght is OFF):		
Approx. D	Approx. DC 28 mA.		
* . If LCD bad	cklight on, the power		
consumpti	ion will increase approx.		
12 mA.			
Meter	345 g/0.76 LB		
Probe	362 g/0.79 LB.		
Meter	182 x 73 x 47.5 mm		
	(7.1 x 2.9 x 1.9 inch)		
Humidity	Probe length: 600 mm		
Content	tent Probe head diameter : 10 mm		
Probe:	Cable length: 1.5 meters		
* Instruction manual			
* Humidity content probe,			
MS-71P 1 Set			
Optional * Probe sensing head w			
MS71HEAD			
* SD Card.			
* Type K the	ermocouple probe.		
* AC to DC	AC to DC 9V adapter.		
	* USB cable, USB-01.		
* RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN.			
	data and LCI Approx. D When SD cai LCD Backligh Approx. D * If LCD bac consumpti 12 mA. Meter Probe Meter Humidity Content Probe: * Instruction * Humidity of MS-71P * Probe sen: MS71HEAI * SD Card. * Type K the * AC to DC 0 * USB cable * RS232 cab; * Data Acqu		

ELECTRICAL SPECIFICATIONS (23±5 ℃)

Humidity/ Temperature

	Range	5 % to 95 % R.H.		
	Range	3 /0 tU 93 /0 K.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)

$^{\circ}\!\mathbb{C}$	Range	-25.3 ℃ to 48.9 ℃
	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)

adapter is optional).

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