HUMIDITY CONTENT METER

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











+TYPE K/J Temp.

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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.
Microcompater 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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GENERAL SPECIFICATIONS				
Circuit	Custom one-chip of microprocessor LSI			
	circuit.			
Display	LCD size : 52 mm x 38 mm			
. ,	LCD with green backlight (ON/OFF).			
Measurement	Humidity/	Humidity/Temp.: %RH/°C or °F.		
Unit	Dew point (Humidity) : °C or °F.			
	Wet bulb (Humidity) : °C or °F.			
	Type K/L	Type K/J thermometer : °C or °F.		
Datalogger	Auto 1 second to 3600 seconds			
Sampling Time	rato	@ Sampling time can set to 1 second,		
Setting range		but memory data may loss.		
Setting range	Manual	Push the data logger button		
	iviai iuai	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	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 J		
	* Set temperature unit to °C or °F			
Temperature	Automatic temp. compensation for the			
Compensation	humidity function and the type K/J			
	thermometer.			
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			
		will get the USB plug.		
Operating	0 to 50 ℃			
Temperature				
Operating	Less than	Less than 85% R.H.		
Humidity	Loss man	Less than 63% K.H.		
Power Supply	* Alkaling	e or heavy duty DC 1.5 V battery		
i owei Suppiy				
	(UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power			
Í	auapter	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.		
	* .If LCD backlight on, the power consumption 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	
	<i>Content</i> Probe head diameter : 10 <i>Probe:</i> Cable length : 1.5 meters		
Standard	* Instruction manual 1 PC		
Accessories	* 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.		
	Range	J /0 10 7J /0 K.II.		
Humidity	lumidity 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)

adapter is optional).

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