

*Stainless professional probe, RS232/USB data interface
Dew point, Type K thermometer*

HUMIDITY CONTENT METER

Model : MS-7011

ISO-9001, CE, IEC1010



Probe, MS-71P (included)

Carrying case, CA-05A
(included)



LUTRON ELECTRONIC

The Art of Measurement

**Stainless, professional probe
Dew point, Type K Thermometer
RS232/USB data interface**

HUMIDITY CONTENT METER

Model : MS-7011

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 content + Dew point + Type K Thermometer are combined into one meter, intelligent.
* Thin-film capacitance sensor for humidity content measurement, high precision.
* Dew point measurement.
* Type K thermometer build in temperature linearity and precision cold junction compensation circuit, high accuracy.
* Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
* Large LCD with two display, show the humidity content & temperature values at same time.
* Heavy duty & compact housing case, designed for easy carry out & operation.
* Records Maximum and Minimum readings with Recall.
* Auto shut off saves battery life.
* Data hold function for freezing the desired value on display.
* RS232/USB computer interface.
* °C, °F conversion is selected by push button on front panel easily.
* Built-in low battery indicator.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	51 mm x 32 mm, 15 mm (0.6") digit size. dual function LCD display,	
Measurement	<i>Humidity content</i>	%RH (Relative Humidity) Temperature - °C, °F.
	<i>Dew point</i>	°C, °F.
	<i>Type K thermometer</i>	°C, °F.
Sensor	<i>Humidity Content</i>	Humidity : High precision thin-film capacitance sensor. Temperature : Thermistor.
	<i>Type K thermometer</i>	Thermocouple probe.
Data Hold	Freeze the display reading by push button.	
Memory Recall	Maximum & Minimum value.	
Sampling Time	Approx. 0.8 second.	
Power off	Auto shut off saves battery life or manual off by push button.	
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	Main instrument : Less than 80 %RH.	
	Probe : Less than 95 %RH.	
Power Supply	006P DC 9V battery (Alkaline or Heavy duty type).	
Power Current	Approx. DC 7 mA.	
Weight	<i>Meter</i>	245 g/0.54 LB
	<i>Probe</i>	461 g/1.01 LB

Dimension	<i>Meter</i>	195 x 68 x 30 mm (7.6 x 2.6 x 1.2 inch)
	<i>Humidity Content Probe:</i>	Probe length : 600 mm
		Probe head diameter : 10 mm Cable length : 1.5 meters
Accessories Included	Instruction manual.....1 PC	
	Humidity content probe, MS-71P.....1 Set	
	Instruction Manual.....1 PC * Soft carrying case, CA-05A.....1 PC	
Optional Accessories	* Probe sensing head with inner filter, MS71HEAD	
	* RS232 cable, UPCB-02	
	* USB cable, USB-01	
	* Data Acquisition software, SW-U801-WIN	
	* <i>Type k thermocouple Probe :</i> Model : TP-01, TP-02A, TP-03, TP-04.	

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Humidity Content

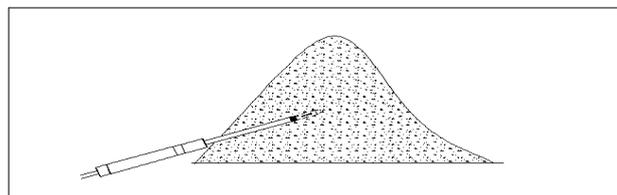
Humidity content	Range	10 to 95 %RH
	Resolution	0.1 %RH.
	Accuracy	≥ 70 %RH : ± (3 % reading + 1 %RH) < 70 %RH. : ± 3 %RH.
Temp.	Range	0 °C to 50 °C, 32 °F to 122 °F.
	Resolution	0.1 degree
	Accuracy	°C : ± 0.8 °C. °F : ± 1.5 °F.

Dew Point

°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
<i>Remark :</i> * Dew Point display value is calculated from the Humidity/Temp. measurement automatically. * The Dew Point accuracy is sum accuracy value of Humidity & Temperature measurement..		

Type K Thermometer

°C	Range	-100.0 to 1300.0 °C
	Resolution	0.1 °C
	Accuracy	-50.0 to 1300.0 °C : ± (0.2 % + 0.5 °C) -50.1 to -100.0 °C : ± (0.2 % + 1 °C)
°F	Range	-148.0 to 2372.0 °F
	Resolution	0.1 °F.
	Accuracy	-58.0 to 2372.0 °F : ± (0.2 % + 1 °F) -58.1 to -148.0 °F : ± (0.2 % + 1.8 °F)



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