

# PINLESS MOISTURE METER

Model : MS-7013

ISO-9001, CE, IEC1010



**Lutron**



**LUTRON ELECTRONIC**

*The Art of Measurement*

# PINLESS MOISTURE METER

Model : MS-7013

## 1. FEATURES

* Designed to check the moisture level of wood.
* Use high-frequency induction, will not damage the wood surface
* 0 % to 50 % moisture range on wood.
* 0°C to 50°C Temperature range.
* Provides automatic temperature compensation.
* 8 kinds of wood density, provide the choice
* Moisturer limit value alarm setting
* Data hold function to freeze the desired value on display.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Operates from DC 9V ( 006P,MN1604 ) batteries.
* Built-in low battery indicator.
* Durable, long-lasting components, enclosed in strong, compact ABS-plastic housing.

## Specification

Applications	Designed to check the moisture level of wood.		
Measuring Principal	Use high-frequency induction Then the conductivity of species Converter reads % " moisture Content "		
Display	LCD size :46.5 mm x28.5 mm.		
Moisture	Range	0 % to 50 %	@ 23 °C ±5 °C
	Resolution	0.5 %RH.	
	Accuracy	±1.5 RH	
TEMP	Range	0°C to 50°C	
	Resolution	0.1 °C	
	Accuracy	±2 °C (3.6 °F)	
Circuit	Custom one-chip of microprocessor LSI circuit.		
Data Hold	Freeze the display reading.		
Sampling Time	Approx. 0.8 second.		
Operating Temperature	0 to 50 °C.		
Operating Humidity	Less than 80% R.H.		
Power Supply	DC 9 V battery (006P, MIN1604)		
Power Current	Approx. DC 7.0 mA		
Weight	109 g/ 0.24 LB.		
Dimension	131 x70 x 26 mm (5.15" x 2.75" x 1.0")		
Accessories Included	Instruction manual..... 1 PC.		
Optional Accessory	* Soft carrying case with sash ( 140 x 77 x 40 mm ), Model : CA-04		

\* Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.

## Wood Density Tables

GEAR	Density g/cm <sup>3</sup>	Wood Variety
1	0.27~0.38	Poplar, cathay poplar, fir, Monterey pine, bass wood, red wood, white pine, thalictrum, sago palm, hard Chinese parasol.
2	0.38~0.45	Douglas fir, yellow cedar, pine wood, aspen, cotton wood, hemlock, spruce, rose wood, okoume, okoumev, fir wood, African cordia, red pine, hemlock, cypress, dyera.
3	0.45~0.55	Douglas fir, yellow cedar, pine wood, fir wood, cotton wood, cypress, alder, African mahogany, Philippines mahogany, hard wood, stained wood, aspen, ramin, karuri, hoop pine, hemlock, kahikatea, ivy tree bark.
4	0.55~0.65	Birch, elm, red oka, black walnut, beech, Iroko, keruing, cashew, rubber wood.
5	0.65~0.75	Pecan, merbau, white oak, olive, lauan, beech, teak wood, apocynaceae, bangkirai, ash wood.
6	0.75~0.85	Wenge, philippines mahogany, palaquium spp australia mahogaany, jatoba, garapa, beech, ebony, copaifera religiosa, african buginga, reular buginga, bubinga, punah.
7	0.85~0.95	Hainan yellow pear wood, aspidosperma spp, beefwood, cumaru, dracaena goldieana.
8	0.95~1.05	dipteryx spp, lapacho, logwood, xylia spp, red sandalwood, Indian pterocarpus spp, southeast asian pterocarpus spp, dalbergia spp. ebony,