

## SPECIAL FEATURES

- Wide variation : The most suitable type for desired applications can be selected from among various kinds of meters.
- High quality · high reliability : The measurements are supported with high stability and high reliability of the meters which are not influenced by the internal structure of objects.
- Easy-to-operate : The meters can be easily operated to measure switching ON only. And also moisture content of objects are directly indicated on the display.

## PRINCIPLE

Objects which can be measured with the electric moisture meters are an electric insulator or an semiconductor. These are shown equivalently as a parallel circuit to resistance R and electrostatic capacity C.

Moisture content is measured utilizing these electrical characteristics.

The electric moisture meters are classified into 2 types, one utilizes the change of resistance R and the other utilizes the change of electrostatic capacity C.

As the relation between moisture and resistance or capacity is different by a kind of materials, several kinds of meters are provided for each object to be measured such as for wood, paper, mortar, etc. or the meters which are applicable for each object to be measured by changing a type of the probe.

## INSTRUMENT TYPE

TYPE OF INSTRUMENTS	MODEL	RANGE
Wood Moisture Meter	TG - 101	Wood : 6 to 50% (W:Wood) MC : 1 to 100 (MC: Moisture Content)
	AQ - 10	Wood : 6.5 to 100% MC : 1 to 50 (MC: Moisture Content)
Paper Moisture Meter	KG - 101	Paper : 6 to 40% (P:Paper) MC : 1 to 100 (MC: Moisture Content)
Mortar Moisture Meter	PM - 101	Mortar/Plaster : 1 to 15% (M: Mortar/Pl: Plaster) MC : 1 to 100 (MC: Moisture Content)
Multipurpose Electric Moisture Meter	MR - 200 II	Wood : 3.5 to 50% Paper : 3.5 to 40% Mortar/Plaster : 0.8 to 15%
	MR - 300	MC : 1 to 100 (depend on the connected probe)
	AQ - 30	W : 6.5 to 100% P : 6.5 to 30% M/Pl : 2 to 11% MC : 1 to 50
Standard probe for MR series (option)	TG - PA	Wood : 3.5 to 50% MC3 : 1 to 100
	KG - PA	Paper : 3.5 to 40% MC2 : 1 to 100
	PM - PA	Mortar/Plaster : 0.8 to 15% MC1 : 1 to 100
Moisture Reading Checker (option)		Moisture Reading Checker for TG, KG, PM, AQ, MR series

## AQ-10/30



- Measurement of wood (AQ-10/30) and mortar/concrete, plaster, paper / paper products (AQ-30)
- Moisture content of powder, sheet, paste type material, etc. in the MC (moisture content) mode (AQ-10/30)

### SPECIFICATIONS

Model	AQ - 10	AQ - 30
Method	DC electric resistance type	
Range	Wood: 6.5 to 100% (SOFT and HARD)	
	MC mode: 1 to 50 div. (no unit, moisture contents)	
	Paper: 6.5 to 30% (paper products)	
	Mortar: 2 to 11% (concrete, plaster)	
Resolution	0.5, 1, 2, 5, 10, 20% (depend on range), MC mode: 1	
Temp. compensation	Automatic temperature compensation (ON/OFF)	
Power source	Dry battery LR03(1.5V) 2 pcs, with auto power OFF	
Temperature	0 to 40°C (no dew formation)	
Dimensions	56(W) × 123(H) × 34(D)mm, approx. 100g	
Accessories	Spare needles, hexagonal wrench, electrode cover	Conductive rubber electrode, spare needles, hexagonal wrench, electrode cover

# Electric Moisture Meters : TG-101, KG-101, PM-101

## TG-101

- Moisture measurement, management, inspection, instruction of various kinds of materials and processed woods
- One touch conversion for hard (HARD)/soft (SOFT) wood
- Simply and speedily selection based on dryness and wetness with the limit switch



TG-101



KG-101

## KG-101

- Moisture measurement of various paper and paper products, management, inspection and instruction
- Application for wider range of objects with MC level

## PM-101

- Moisture measurement, management and inspection of mortar, concrete and plaster
- Measurement without affection by density, berried iron reinforcing bars and so on



PM-101

## SPECIFICATIONS

Model	TG-101	KG-101	PM-101
Method	DC electric resistance type		
Range	6 to 50%	6 to 40%	1 to 15%
Resolution	Moisture value 0.1%, MC mode 1 (no unit)		
Mode	Wood (HARD) / Wood (SOFT)	Paper/MC level	Mortar/Plaster
Display	LCD digital with indication of LOBAT		
Upper limit alarm	6.5 to 49.5% 0.5% pitch	6.5 to 39.5% 0.5% pitch	1.5 to 14.5% 0.5% pitch
Probe (small size)	2 needle electrode (stabbing type)	SB electrode (press type)*	rubber electrode (press type)
Power source	Dry battery LR03 (1.5V) 4pcs, with auto power OFF		
Operating temperature	0 to 40°C (no dew formation)		
Dimensions	80(W) × 35(H) × 150(D)mm		
Wight	320g	370g	320g
Accessories	Carrving case, spare needles, hexagonal wrench		Carrving case

※ 2 needle electrode for common use

# Electric Moisture Meters : MR-200, MR-300

## MR - 200II

- Measurement for various materials by only changing the probe
- Compact body with easy-to-read large-sized LCD display
- Easily check dryness and wetness condition by upper and lower limit function



MR - 200II+TG-PA

## MR - 300

- Measurement for various materials by only changing the probe
- Multifunction type with built-in-printer
- Data control with RS-232C
- Data memory up to 15,000 points
- Display and print out with statistical calculation function




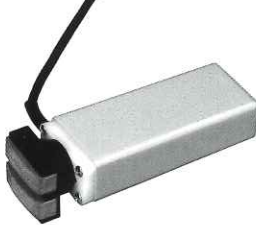

MR - 300+KG-PA

## SPECIFICATIONS

Model	MR - 200 II	MR - 300
Method	DC electric resistance type	
Range	Depend on connected probe (option)	
Resolution	Moisture value 0.1%, each MC mode 1 / 0.5 (no unit)	
Mode	Moisture %, Each MC mode (moisture content)	
Display	LCD display, connected probe, HOLD function, upper/lower limit values, battery's voltage drop	LCD display, connected probe, HOLD function, upper/lower limit values, battery's voltage drop (control part/printer part) communication speed, block No./ Nos. of data memory, electric back light, Kana/English indication by conversion
Alarm	Upper and/or lower limit values, free setting by 0.1% pitch	
Temp. compensation	Automatic temperature compensation (ON / OFF)	
Power source	Dry battery LR03 (1.5V) 4pcs, with auto power OFF	DC: Dry battery LR6 (1.5V) 8pes (4 for printer), with auto power OFF AC: Exclusive adapter
Operating temperature	0 to 40°C (no dew formation)	
Dimensions	80(W) × 35(H) × 150(D)mm, 200g	103(W) × 41 (H) × 228(D)mm, 740g
Accessories	Carrying case	Carrying case, communication cable, AC adapter, spare roll paper for the printer,
Memory	Mean value indication: Max. 20 points of mean values are displayed. (deleted when Power is OFF)	Measuring values: Max. 15,000 points "Fix 5 blocks × 3000 points or freely set blocks × memory points"
Statistical treatment		Nos. of measurement, maximum value, minimum value, mean value, median, most frequent value, standard deviation, histogram of measured values
Communication		Built-in RS-232C interface Real time / memory transmission Communication speed: 19200, 9600, 4800, 2400, 1200, 600bps
Printer		Thermal type, 24-digit, paper 58mm in breadth, Kana/English print by conversion

## Electric Moisture Meters : Probe & Checker

### STANDARD PROBE (OPTION): For connecting to MR-200II / MR-300

Type	Range	Applications
 TG - PA(For wood)	3.5 to 50%	Wood such as building/furniture/packing material, board, and so on
	MC-3 : 1 to 100 indication	Distinction and control of dryness in production line of foods, chemical synthetic products, and so on  50(W) × 30(H) × 135(D)mm, 320g
 KG - PA(For paper/corrugated)	3.5 to 40%	Paper products such as paper, corrugated cardboard, used paper, and so on
	MC-2 : 1 to 100 indication	Distinction and control of dryness in production line of textiles and so on  50(W) × 40(H) × 150(D)mm, 360g
 PM - PA(For mortar/plaster)	0.8 to 15%	Mortar, concrete, plaster, and so on
	MC-1 : 1 to 100 indication	Distinction and control of dryness in production line of ceramic products  50(W) × 30(H) × 130(D)mm, 310g

### MOISTURE READING CHECKER (OPTION)

Readings can be confirmed with this checker if the electric type moisture meter shows correct moisture readings.

Applicable Meters: AQ, MR, TG, KG, PM series

Indications: Wood (HARD): 17 to 19%

Wood (SOFT): 19 to 21%

Paper · corrugated cardboard: 19 to 21%

Mortar: 4 to 5%

Plaster: 3 to 4%

Dimensions: 52(W) × 8(H) × 30(D)mm, 12g



### SANKO LINE OF BUSINESS

- Needle and Iron piece detectors
- Infrared moisture meters
- Electric moisture meters (for Wood, Paper, Mortar, Plaster)
- Coating thickness meters (Dual type & Electro-magnetic & Eddy current)
- Pinhole / Holiday detectors (High voltage Spark type and Dampened type)



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