

An abstract graphic design is positioned in the center of the page. It features three large, semi-transparent green triangles overlapping to form a diamond shape. The triangles are set against a white background. To the left of this graphic is a solid vertical green rectangle.

MEASURING INSTRUMENTS

Rev.30

A MESSAGE FROM THE PRESIDENT

Kett Electric Laboratory Co.Ltd., one of Japan's leading manufacturers of measuring instruments, has during its more than 77 years of operations developed a large number of unique, technically advanced and high-performance products for agricultural and industrial use. These include moisture testers, our specialty, as well as coating thickness testers, iron detectors, and a variety of other instruments. Our moisture testers represent a giant stride of progress from former, time-consuming methods of measuring moisture content, wherein the item to be measured had to be painstakingly dried and its weight loss evaluated. Kett moisture testers automatically and quickly determine the moisture content of such varied substances as grain, wood, food, textiles, pulp, paper, chemicals, mortar, soil and hay. They have thus played a valuable role in improvement of product quality and enhancement of overall productivity, and have been officially adopted by the Food Agency and other national and prefectural governmental agencies, numerous industry associations, private companies, and individuals. Kett's coating thickness testers are also employed in quality control applications in such industries as metal plating, machinery, rolling stock and shipbuilding. In addition, our iron detectors and other measuring instruments are presently employed in industrial operations throughout Japan and the world. Singular emphasis upon research and development has gained Kett a worldwide reputation for excellence, and the reliability and ease of operation of our products have earned them widespread acceptance in agriculture and industry throughout the world. On the following pages is presented a broad range of measuring equipment featuring advanced technology and high accuracy, which is capable of meeting the requirements of even the most demanding user.



S. Emori, President

G.P. Moisture Testers	Grain Moisture Testers	Wood Moisture Testers	Concrete Moisture Testers	Paper Moisture Testers	Other Moisture Testers	Composition Analyzers	Quality Judging Instruments	Whiteness Testers	Coating Thickness Testers	Metal Detector	Physical Properties Instruments	Mea. Auxiliary Instruments	Printer	Software
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G.P. Moisture Testers
Grain Moisture Testers
Wood Moisture Testers
Concrete Moisture Testers
Paper Moisture Testers
Other Moisture Testers
Composition Analyzers
Quality Judging Instruments
Whiteness Testers
Coating Thickness Testers
Metal Detector
Physical Properties Instruments
Measuring Instruments
Printer
Software

General Purpose Moisture Analyzers	
Infrared Moisture Analyzer FD-660	Specifications
	Mea. method Detection of weight loss by heating & drying Sample mass 1 - 80g (optional weight sampling) Mea. range 0 - 100% (Wet base, Solids), 0 - 500% (Dry base) Repeatability Samples with a weight of 5g or higher : 0.1% (standard deviation) Resolution Moisture: 0.01% / 0.1%; Weight: 0.005g (*not a guarantee of accuracy) Mea. modes Automatic stop mode, Timer stop mode (1 - 120 min.) Temp. setting range 30 - 180°C (in steps of 1°C) Display Backlit LCD display (96 x 40mm) External output RS-232C interface Ambient cond. Temperature 5-40°C, Humidity : 85%RH or less (no condensation) Sample dish SUS (diameter 110 mm, depth 11 mm) Power source AC100-120V / 220-240V (50/60Hz), Max900W Dim. & weight 222(W)x360(D)x196(H)mm, 3.2kg / Shipment 8kg Accessories Sample dish x2, sample dish handler, wind shield, sample dish tray, spoon, spare fuse, package of Aluminum foil sheets (10 per package), Power Cord (Power plug conversion adapter)
•Basic model •Minimum moisture content display 0.01%, weight display 5 mg •Drift reduction using auto taring	Options Printer VZ-380(P.30) (incl. cable VZC69), Printer paper (10 rolls), package of Aluminum foil sheets (500 sheets), RS-232C cable VZC52, Data Logger software FDL-02(P.32), Sample crusher TQ-100, Radiation thermometer calibration kit GF-310, Deodorizing windshield case FW-100 (P.28)

General Purpose Moisture Analyzers	
Infrared Moisture Analyzer FD-720	Specifications
	Mea. method Detection of weight loss by heating & drying Sample mass 0.5 - 120g (optional weight sampling) Mea. range 0 - 100% (Wet base, Solids), 0 - 500% (Dry base) Repeatability Sample with a weight of 5g or higher : 0.05% (standard deviation) Sample with a weight of 10g or higher : 0.02% (standard deviation) Resolution Moisture: 0.01% / 0.1%; Weight: 1mg Mea. modes Automatic operation mode : Timed operation mode (1-240min or continuous) : High-speed drying mode : Low-speed drying mode : Stepped drying mode (max of 5 steps) : Predictive measurement mode Temp. setting range 30 - 180°C (in steps of 1°C) Ambient cond. Temperature 5-40°C, Humidity : 85%RH or less (no condensation) Pollution degree 2, Altitude up to 2000m Sample dish SUS (diameter 130 mm, depth 13 mm) Power source AC100-120V / 220-240V (50/60Hz), Max900W Dim. & weight 220(W)x415(D)x190(H)mm, 4.5kg / Shipment 10kg Accessories Sample dish 2 pcs, Sample dish handler 2 pcs, Wind shield, Sample dish tray, Spoon and spatula set, Spare fuses(T8A 250V) 2 pcs, Power Cord, Aluminum sheets(20 pcs)x2, Operating Manual
•Mid-class model •Minimum moisture content display 0.01%, weight display 1mg •Six types of measurement modes	Options Printer VZ-380(incl. cable VZC14), Data logger software FDL-02(P.32), Radiation thermometer calibration kit GF-110, Windshield with deodorizer case FW-100 (P.28)

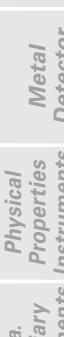
General Purpose Moisture Analyzers	
Infrared Moisture Analyzer FD-800	Specifications
	Mea. method Detection of weight loss by heating & drying Sample mass 0.5 - 120g (optional weight sampling) Mea. range 0 - 100% (Wet base, Solids), 0 - 500% (Dry base) Repeatability Sample with a weight of 5g or higher : 0.05% (standard deviation) Sample with a weight of 10g or higher : 0.02% (standard deviation) Resolution Moisture: 0.01% / 0.1%; Weight: 1mg Mea. modes Automatic operation mode : Timed operation mode (1-240min or continuous) : High-speed drying mode : Low-speed drying mode : Stepped drying mode (max of 5 steps) : Predictive measurement mode Temp. setting range Thermistor (T1) : 30-180°C (1°C interval) Radiation thermometer (T2) : 30-250°C (1°C interval) Ambient cond. Temperature 5-40°C, Humidity : 85%RH or less (no condensation) Pollution degree 2, Altitude up to 2000m Sample dish SUS (diameter 130 mm, depth 13 mm) Power source AC100-120V / 220-240V (50/60Hz), Max900W Dim. & weight 220(W)x415(D)x220(H)mm, 5.4kg / Shipment 10kg Accessories Sample dish 2 pcs, Sample dish handler 2 pcs, Wind shield, etc. Options Printer VZ-380(incl. cable VZC14), 10x Printer paper rolls, 500x Aluminum sheets, Radiation thermometer calibration kit GF-210 (digital thermometer, standard heating sample), Data logger software FDL-02(P.32), Windshield with deodorizer case FW-100 (P.28)
•Flagship model •Dual temperature control even monitors on-tray temperature •Significantly shortened measurement time	

General Purpose Moisture Analyzers	
Universal Moisture Tester HB-300	Specifications
	Mea.method Electric resistance Mea. range 1 - 99% (Depends on calibration & samples) Accuracy Depends on calibration Ambient cond. 0 - 40°C Power source Batteries 6 pcs. "AA" size Alkaline Dimensions 110 (W) x 210 (D) x 50 (H) mm Weight Net 0.5kg / Shipment 4.0kg Options Sensors, Printer VZ-390(P.29)(incl. cable VZC70), Data logger software KDL-01(P.32)
•Wide measurement range accepts many objects to measure •Simple calibration curve creation •A rich variety of optional sensors	

General Purpose Moisture Analyzers	
NIR Moisture Analyzer KB-230	Specifications
	Mea. method Near-infrared reflection, light projected/received at the bottom plane Spectroscopy Filter Mea. diameter ø25mm Measurement time Normal measurement: 7 sec. (subject to the setting) Continuous measurement: 0.5 sec. interval Analytical curves 50 Light source Tungsten lamp (standard life: 20000 hours) Display Organic EL Input/Output USB (for PC I/O), RS-232C (for printer output) Ambient cond. 5 - 35°C / 30 - 80%RH (no condensation) Power supply AC100-240 V (50/60Hz), 40W Dim. & Weight 415 (W) x 370 (D) x 226 (H) mm / 13 kg Accessories Light shielding cover, Sample cell (Petri dish, ø90 mm), Zero-adjustment plate, Sample cell holder, Power cable, Fuse (spare), First Guide, Operating Manual
•High flexibility of sample container and measurement over a plastic bag available •Creates calibration curve by operating keys	Options Large Petri dish (150 mm dia), PC software, Masking holder (arbitrary Hole diameter) + small petri dish (30 mm dia), Deep type light shielding cover, Reflective plate, Printer VZ-800(P.31)

General Purpose Moisture Analyzers	
NIR Moisture Analyzer KB-30	Specifications
	Mea. method Near-infrared reflectance Mea. distance 260mm±30mm Mea. diameter ø25mm (at 260mm) Light source Tungsten lamp (standard life: 20000 hours) Display Red color 7 segment LED Input/Output RS-232C, RS-485 Ambient cond. 5 - 40°C / 30 - 80%RH (no condensation) Power supply AC100-240V (50/60Hz), 50W Protection IP66 Dim. & Weight 268(W)x140(D)x306(H)mm / 7kg Accessories Power Cable, Zero adjustment plate, Mounting Bolt, PC Software, RS-232C Cable 3m etc. Options Controller KJT-CNT2(P.28), Interface Board
•Reasonably priced model •Measures moisture on the production line in real time •Uncoated finish prevents rust etc.	

G.P. Moisture Testers
Four Needled Sensor
Rubber Sensor
Pressure Type Sensor
Grain Moisture Testers
Wood Moisture Testers
Concrete Moisture Testers
Paper Moisture Testers
Other Moisture Testers
Composition Analyzers
Quality Judging Instruments
Whiteness Testers
Coating Thickness Testers
Metal Detector
Physical Properties Instruments
Measuring Instruments
Printer
Software

G.P. Moisture Testers		General Purpose Moisture Analyzers		Grain Moisture Testers	
NIR Moisture Meter KJT-130					
Specifications		Specifications		Specifications	
<p>Mea. distance 150mm±25mm Mea. diameter ø25mm (at 150mm) Response time 2 seconds Refresh cycle 0.2 seconds Analytical curves 50 Display LCD with back light Output RS-232C, Equivalent to Hirose MX30-6P-C. Power source Nickel metal hydride battery "AA" size x 6pcs Mounting screw 3/8-Inch standard mounting screw Ambient cond. 10 - 30°C, 0 - 80%RH (no condensation) Dimensions 210 (W) x 102 (D) x 172 (H) mm Weight Net 1.1kg / Shipment 3.0kg Accessories Battery, Carrying Case, Hood with zero adjustment plate, AC100V to 240V Charger, Strap Options RS-232C cable (KJT-130-CBL), AC adapter (KJT-130-ADC), Hood extension (KJT-130-FDP), Thermosensitive printer (KJT-130-PRT), Printer cable (KJT-130-RSP), Battery pack (KJT-130-BAT), PC software (KJT-130-PC)</p>		<p>Mea. method Dielectric constant Applications Grain, Seeds Mea. range 1-40% (Sample dependent) Sample volume 240 mL Ambient cond. 0 - 40 °C Measurement Accuracy Moisture : Standard error of 0.5% or less versus drying method. (all samples with moisture content of less than 20%) Function Mass, Temperature, Shift correction (Offset correction) Other functions Average, auto Power off, volume weight unit of g/L (sample weight/sample volume) Display Digital (LCD) Power source 4Pcs. 1.5V Batteries ("AA" size Alkaline) Dimensions 125 (W) x 205 (D) x 215 (H) mm Weight Net 1.3kg / Shipment 4.0kg Accessories Hopper, sample cup, Brush, batteries (1.5V "R6" or "AA" size, x4), sample list Option Printer VZ-390(P.31) (incl. cable VZC69)</p>		<p>Mea. method Electrical resistance Mea. range Brown rice (11 - 20%), Milled rice (11 - 20%), Paddy rice (11-35%), Barley (10 - 40%), Wheat (10 - 40%), Naked barley (10 - 35%) Measurement time Less than 40 seconds / 100 kernels (during measurement of brown rice, average moisture value display time) Accuracy ± 0.5% (Moisture less than or equal to 20%) Statistical calculations Average, Standard deviation (printout mode) Display content Selected grain type, average moisture value, kernel count, time, moisture distribution (histogram) Temp. correction Automatic instrument temperature correction using a thermostat Kernel count 10-1000 (Selectable) Ambient cond. 5-40°C, Less than 85%RH (no condensing) External output RS-232C interface (for printer), USB (for PC) Power source AC100-240V (50/60Hz), Max76W Dim. and weight 320(W) x 254(D) x 382(H)mm 9.0kg Accessories Scoop, Tweezers, Electrical Power Cord Options Printer VZ-380(P.30) (incl. VZC69 cable) for RS-232C output only, Data logger software PDL-01(P.33) (incl. USB cable) for USB output only</p>	
<ul style="list-style-type: none"> Portable handy NIR moisture analyzer Drives with rechargeable battery Data logging and calibration curve creation by operating keys 		<ul style="list-style-type: none"> Can measure grains and seeds No preliminary sample treatment required Non-destructive measurement by only placing a sample 			
Grain Moisture Tester PB-3100 series		Single Kernel Grain Moisture Tester PQ-520		Grain Moisture Testers	
Specifications		Specifications		Specifications	
<p>Mea. method Electrical resistance Applications Model PB-3103; Paddy, Rice, Parboiled Rice, Parboiled Paddy, Tapioca-Pellet, Tapioca Flour Model PB-3104(for pasta processing); Wheat, Flour(Cake & Noodle), Flour(Bread & Pasta), Noodle, Pasta, Corn Flour Mea. range 6-35% (Sample dependent) Measurement Accuracy Manufactured: ±0.1%, Standard error of 0.5% or less versus drying method. (all samples with moisture content of less than 20%) Display format Digital (LED, smallest displayed unit 0.1%) Display content Moisture (%), Number of times measured Temp. correction Automatic temperature correction according to thermostat Output Printer Terminal (based on Centronics) Power source AC100V / 220V(50/60Hz) or 1.5 ("D" size batteries) x 4. When using battery power, continuous running time is 15 hours. Dim. & weight 250(W)x240(D)x125(H)mm, 3.5kg / Shipment 5.0kg Accessories Metal plate, Sample dish, Checker, Measuring spoon, Crushing handle, Brush, Spiral Brush, Batteries (1.5 V Alkaline "D" size, 4 pcs), Power Cord Options Printer VZ-380(P.30) (incl. cable VZC69)</p>		<p>Mea. method Electrical Resistance Mea. range Brown rice (11 - 20%), Milled rice (11 - 20%), Paddy rice (11-35%), Barley (10 - 40%), Wheat (10 - 40%), Naked barley (10 - 35%) Measurement time Less than 40 seconds / 100 kernels (during measurement of brown rice, average moisture value display time) Accuracy ± 0.5% (Moisture less than or equal to 20%) Statistical calculations Average, Standard deviation (printout mode) Display content Selected grain type, average moisture value, kernel count, time, moisture distribution (histogram) Temp. correction Automatic instrument temperature correction using a thermostat Kernel count 10-1000 (Selectable) Ambient cond. 5-40°C, Less than 85%RH (no condensing) External output RS-232C interface (for printer), USB (for PC) Power source AC100-240V (50/60Hz), Max76W Dim. and weight 320(W) x 254(D) x 382(H)mm 9.0kg Accessories Scoop, Tweezers, Electrical Power Cord Options Printer VZ-380(P.30) (incl. VZC69 cable) for RS-232C output only, Data logger software PDL-01(P.33) (incl. USB cable) for USB output only</p>			
<ul style="list-style-type: none"> Electric resistance type, standard desktop rice and grain moisture tester Printer connectable 		<ul style="list-style-type: none"> Grasp the moisture distribution of the whole section by measuring a single grain Displays the distribution in histograms 			
Grain and Coffee Moisture Tester PM-450 series		Grain Moisture Testers		Grain Moisture Testers	
Specifications (PM-450 Version 4501)		Specifications		Specifications	
<p>Mea. method Dielectric constant Applications Grain, seeds, small objects Mea. range 1- 40% (Sample dependent) Sample volume 240 mL Ambient cond. 0 - 40 °C Measurement Accuracy Moisture:Standard error of 0.5% or less versus drying method. (all samples with moisture content of less than 20%) Correction function Mass : By integrated weighing scale, Temperature : By thermistor, Shift correction (Offset correction)-9.9 - +9.9% Other functions Average, auto Power off Display Digital (LCD) Power source 4Pcs. 1.5V Batteries ("R6" or "AA" size), 240 mW Dimensions 125 (W) x 205 (D) x 215 (H) mm Weight Net 1.3kg / Shipment 4.0kg Accessories Funnel, manual-hopper, Brush, product list, batteries (1.5V "R6" or "AA" size x4)</p>		<p>Mea. method Electrical Resistance Method Mea. range Wheat flour : 11-18%, Wheat : 9-30%, Rice flour : 8-18%, Long milled rice : 10-20%, Short milled rice : 10-20%, Long paddy : 10-35%, Short paddy : 10-30% Ambient cond. 5- 40 °C Applications and Measurement Accuracy Flour : 0.25% (SEC, 130°C 5g 2hrs method, Entire range) Grain : 0.5% (SEC, 130°C 5g crushed 2hrs method, Under 20% range) Environment without abnormal electromagnetic noise Display format Digital (LCD, minimum display digit 0.1%, backlit equipped) Temp. correction Automatic temperature correction using thermistor Power supply 1.5 V (AA battery) x 4 pieces (auto Power off function after 5 minutes),- Max. 0.3 W Dim. and weight 164 (W) x 94 (D) x 64.5 (H) mm, Approx. 0.44 kg Accessories Sampling tray 4 pieces (2pcs per each of rice flour and milled rice), Metal plate (3 pcs), Cleaning Brush (2types), Spoon with tweezers, Battery (AA size x4pcs), Battery holder, Carrying Case, Operating manual</p>		     	
<ul style="list-style-type: none"> Moisture analyzer and electric grain tester comply with specified standard for agricultural product inspection Non-destructive measurement 		<ul style="list-style-type: none"> Measures moisture of rice flour and raw polished rice Average moisture display Features automatic temp. correction 		    	

**On-Line Grain Moisture Tester
PT-2700 (2751/2752/2756)**

- Can be mounted into a paddy dryer or measuring scale at a rice unloading station, enabling continuous moisture measurement.

**On-Line Grain Moisture Sensor
PT-6200****Specifications**

Mea. method	Electrical Resistance Method
Applications	Paddy, Wheat, Brown Rice, Milled Rice, Barley, Parboiled Rice (Varies by version)
Mea. variables	Moisture, Temperature
Mea. range	Moisture: 10-35%, Temperature: 0-50°C/130°C 5g 2H crushed
Accuracy	With respect to drying method (105°C 5g 5H crushed), 1σ-0.5% or less, at moisture of 20% or less
Mea. time	100 Grains/ 40s (Brown rice, Milled rice)
Measured volume	100 Grains per measurement
Display format	Digital (LED, smallest displayed unit: moisture 0.1%, temperature 1°C)
Ambient cond.	0-50°C, 0-80% (however, must be free of condensation risk)
External output	RS-232C interface
Power source	AC100-240V (50/60V), Max 120W
Dim. & weight	Controller 170(W) x 110(D) x 248(H) mm, 1.2kg
Accessories	Moisture sensor PU-356/359, Cable with thermistor

Grain Moisture Testers**Grain Moisture Tester
HB-610****Specifications**

Mea. method	Electrical Resistance Method
Applications	Raw cashew nut, Cashew kernel, Cashew kernel testa
Mea. range	3-25% (Sample dependant)
Display	Digital (LCD)
Power source	1.5V batteries (AA alkaline) x 6
Dim. & weight	110(W) x 210(D) x 50(H)mm, 0.5kg
Accessories	Bar sensor (UB-1000), Shoulder strap, 1.5V batteries (AA alkaline x 6), Carrying case Operating manual
Options	Printer VZ-390 with cable VZC70, Data Logger software HDL-03

Grain Moisture Testers**Grain Moisture Tester
Riceter fv200series**

- Easy-to-see display and easy-to-use main body
- Average moisture display
- Features automatic temp. correction

Specifications

Mea. method	Electrical Resistance Method
Applications	Brown rice, Milled rice, Paddy, Barley, Naked Barley, Wheat,... (Model version dependant)
Mea. range	10 - 35% (Sample dependent)
Ambient cond.	0-40°C (no condensation)
Accuracy	Standard error of 0.5% or less versus drying method. (all samples with moisture content of less than 20%)
Power source	4Pcs. 1.5V Batteries ("AA" size)
Dimensions	164(W) x 94(D) x 65(H)mm
Weight	Net 0.44kg / Shipment 1.5kg
Accessories	Sample pans (2pcs.), Brush, Spoon with tweezers, "AA" size batteries (4pcs.), User's manual, Carrying Case

Grain Moisture Testers**Wood Moisture Tester
HM-540**

- Moisture tester for wood and plywood
- Non-destructive measurement available
- Easy operation by only touching the object to measure

Specifications

Mea. method	High-frequency capacity type (20 MHz)
Applications	All wooden materials
Mea. range	2 - 150%
Accuracy	Standard error of 0.5% or less (our standard sample, cedar/cypress: 20% or less), Drying: JIS Z 2101:2009
Correction Function	Thickness: 10-40 mm Specific gravity: 0.1-1.25 (up to 3 setting values storables) Moisture: slope (0-2.50), offset (-9.9-9.9) Temperature: automatic (10-40°C), manual (-10-70°C)
Power source	Battery 1 pc. 9V (006P Alkaline)
Dim. & weight	72(W)x146(D)x118(H)mm, approx. 0.39 kg
Weight	Net 0.5kg / Shipment 1.5kg
Options	Data Logger Software HDL-02 (P.32)

Wood Moisture Testers**Wood Chip Moisture Tester
MT-200**

- Measures by inserting the bar sensor
- Built-in calibration curves exclusive for cutting and crushing chips
- Can create user calibration curves

Specifications

Mea. method	Electrical Resistance Method
Applications	Cutting and crushing chips
Mea. range	15-55% (Wet base)
Accuracy	Cutting chips; Standard error: 5.0%, repeatability: 2.0% Crushing chips; Standard error: 3.0%, repeatability: 2.0% Standard method: Constant weight method at 103°C (ISO 18134)
Display	Digital (LCD, smallest displayed unit 0.1%)
Ambient cond.	0-40°C (no condensation)
Functions	Upper limit alarm setting (15 to 55% and OFF), Moisture value bias adjustment (-9.0 to 9.9%), Auto power off (automatically turned off in approx. 5 minutes), Average value display, Continuous measurement mode, Calibration curve memory function (13 types)
Power source	6Pcs. 1.5V Batteries ('AA' size Alkaline), Approx. 0.45 W
Dim. & weight	110 (W) x 210 (D) x 50 (H) mm, Net 0.5kg
Accessories	Bar sensor (PU-360), Shoulder strap, 1.5 V batteries (AA alkaline) x 6, Operating manual

G.P. Moisture Testers**Grain Moisture Testers****Wood Moisture Testers****Concrete Moisture Testers****Paper Moisture Testers****Other Moisture Testers****Composition Analyzers****Quality Judging Instruments****Whiteness Testers****Coating Thickness Testers****Metal Detector****Physical Properties Instruments****Mea. Auxiliary Instruments****Printer****Software**

G.P. Moisture Testers		Concrete Moisture Testers																																									
Wood Moisture Testers	Concrete Moisture Testers	Wood Moisture Testers	Concrete Moisture Testers																																								
<h3>Wood Moisture Tester MT-730</h3>  <p>Specifications</p> <table border="1"> <tr><td>Mea. method</td><td>Electrical Resistance Method</td></tr> <tr><td>Applications</td><td>Single plank, all wooden materials</td></tr> <tr><td>Calibration curves</td><td>For hardwood (broad-leaved trees) and softwood (needle-leaved trees) (Reference method: ISO 13061-1), 16 types for tree species</td></tr> <tr><td>Mea. range</td><td>6-40% (Broad-leaved trees), 7-40% (needle-leaved trees), 4-40% (when tree types No. 1 - 16 selected, will depend on particular tree species)</td></tr> <tr><td>Accuracy</td><td>Less than 20%: ±0.5%, 20% or more: ±2.0% (In either case, precision with respect to base resistance)</td></tr> <tr><td>Display format</td><td>Digital (LCD, smallest displayed unit 0.1%)</td></tr> <tr><td>Ambient cond.</td><td>0-40°C (no condensation)</td></tr> <tr><td>Functions</td><td>Automatic temperature compensation, Average value display, Auto Off (turns Power OFF automatically after approx. 5 min) Max value alarm setting (10 - 39%, or OFF), moisture value compensation (-9.9 to 9.9%)</td></tr> <tr><td>Power source</td><td>6Pcs. 1.5V Batteries ("AA" size Alkaline), Approx. 0.45 W</td></tr> <tr><td>Dim. & weight</td><td>110 (W) x 210 (D) x 50 (H) mm, Net 0.5Kg / Shipment 4Kg</td></tr> <tr><td>Accessories</td><td>4-Needle sensor, 10x Spare needles, 2x Conductive rubber pieces, Wrench, 6x 1.5V Batteries ("AA" size Alkaline), Carrying Case, Shoulder Strap, Tree species number chart (Japanese and English), Operating manual</td></tr> </table> <ul style="list-style-type: none"> • Measures 16 kinds of wood materials without conversion • Features an average value display, automatic temperature correction and upper limit alarm 	Mea. method	Electrical Resistance Method	Applications	Single plank, all wooden materials	Calibration curves	For hardwood (broad-leaved trees) and softwood (needle-leaved trees) (Reference method: ISO 13061-1), 16 types for tree species	Mea. range	6-40% (Broad-leaved trees), 7-40% (needle-leaved trees), 4-40% (when tree types No. 1 - 16 selected, will depend on particular tree species)	Accuracy	Less than 20%: ±0.5%, 20% or more: ±2.0% (In either case, precision with respect to base resistance)	Display format	Digital (LCD, smallest displayed unit 0.1%)	Ambient cond.	0-40°C (no condensation)	Functions	Automatic temperature compensation, Average value display, Auto Off (turns Power OFF automatically after approx. 5 min) Max value alarm setting (10 - 39%, or OFF), moisture value compensation (-9.9 to 9.9%)	Power source	6Pcs. 1.5V Batteries ("AA" size Alkaline), Approx. 0.45 W	Dim. & weight	110 (W) x 210 (D) x 50 (H) mm, Net 0.5Kg / Shipment 4Kg	Accessories	4-Needle sensor, 10x Spare needles, 2x Conductive rubber pieces, Wrench, 6x 1.5V Batteries ("AA" size Alkaline), Carrying Case, Shoulder Strap, Tree species number chart (Japanese and English), Operating manual	<h3>Concrete and Mortar Moisture Tester HI-520-2</h3>  <p>Specifications</p> <table border="1"> <tr><td>Mea. method</td><td>High frequency capacitance (20MHz)</td></tr> <tr><td>Applications/ Ranges</td><td>LWC (ALA : Artificial lightweight aggregate concrete) 0 - 23 % GYP (Gypsum board) 0 - 50 % Concrete 0-12 % ALC (Autoclaved lightweight concrete) 0-100 % Mortar 0-15 % CSB (Calcium silicate board) 0-15 % D mode 0-1999 S mode (only in S & D mode) 0-1100</td></tr> <tr><td>Functions</td><td>Temperature correction, backlit, upper limit of moisture content alarm setting, hold, user calibrations (8 pcs.)</td></tr> <tr><td>Display</td><td>Digital (LCD)</td></tr> <tr><td>Power supply</td><td>9 V alkaline battery (006P) x1 , 350 mW</td></tr> <tr><td>Dim. & weight</td><td>72 (W) x 146 (D) x 118 (H) mm, approx. 0.39 kg</td></tr> <tr><td>Accessories</td><td>9 V alkaline battery (006P), soft case (with Strap), Operating manual</td></tr> <tr><td>Options</td><td>Data logger software HDL-01 / HDL-02(P.32)</td></tr> </table> <ul style="list-style-type: none"> • Usable in dark places thanks to the LCD with backlight • Features user fs custom calibration creation 	Mea. method	High frequency capacitance (20MHz)	Applications/ Ranges	LWC (ALA : Artificial lightweight aggregate concrete) 0 - 23 % GYP (Gypsum board) 0 - 50 % Concrete 0-12 % ALC (Autoclaved lightweight concrete) 0-100 % Mortar 0-15 % CSB (Calcium silicate board) 0-15 % D mode 0-1999 S mode (only in S & D mode) 0-1100	Functions	Temperature correction, backlit, upper limit of moisture content alarm setting, hold, user calibrations (8 pcs.)	Display	Digital (LCD)	Power supply	9 V alkaline battery (006P) x1 , 350 mW	Dim. & weight	72 (W) x 146 (D) x 118 (H) mm, approx. 0.39 kg	Accessories	9 V alkaline battery (006P), soft case (with Strap), Operating manual	Options	Data logger software HDL-01 / HDL-02(P.32)				
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<h3>Wood Moisture Tester MT-900</h3>  <p>Specifications</p> <table border="1"> <tr><td>Mea. method</td><td>Electrical Resistance Method</td></tr> <tr><td>Applications</td><td>Single plank, all wooden materials</td></tr> <tr><td>Calibration curves</td><td>Broad-leaved trees, needle-leaved trees (Standard Method : ISO 3130), 16 types of tree species</td></tr> <tr><td>Mea. range</td><td>6-80% (Broad-leaved trees), 7-80% (needle-leaved trees), 4-40% (when tree types No. 1 - 16 selected, will depend on particular tree species)</td></tr> <tr><td>Accuracy</td><td>Moisture < 20% ± 0.5% Moisture ≥ 20% ± 2.0% (Accuracy compared to standard resistance)</td></tr> <tr><td>Display format</td><td>Digital (LCD, smallest displayed unit 0.1%)</td></tr> <tr><td>Ambient cond.</td><td>0-40°C (no condensation)</td></tr> <tr><td>Functions</td><td>Automatic temperature compensation, Average value display, Auto Off (turns Power OFF automatically after approx. 5 min) Max value alarm setting (10 - 79%, or OFF), moisture value compensation (-9.9% - 9.9%)</td></tr> <tr><td>Power source</td><td>6Pcs. 1.5V Batteries ("AA" size Alkaline), Approx. 0.45 W</td></tr> <tr><td>Dim. & weight</td><td>110 (W) x 210 (D) x 50 (H) mm, Net 0.5Kg / Shipment 4Kg</td></tr> <tr><td>Accessories</td><td>4-Needle sensor, 10x Spare needles, 2x Conductive rubber pieces, Wrench, 6x 1.5V Batteries ("AA" size Alkaline), Carrying Case, Shoulder Strap, Tree species number chart (Japanese and English), Operating manual</td></tr> <tr><td>Options</td><td>Printer VZ-390(P.31) (incl. cable VZC70), Data logger KDL-01(P.32)</td></tr> </table> <ul style="list-style-type: none"> • High-end MT-730 model covers wide range • Built-in calibration curves exclusive for broad and needle-leaved trees 	Mea. method	Electrical Resistance Method	Applications	Single plank, all wooden materials	Calibration curves	Broad-leaved trees, needle-leaved trees (Standard Method : ISO 3130), 16 types of tree species	Mea. range	6-80% (Broad-leaved trees), 7-80% (needle-leaved trees), 4-40% (when tree types No. 1 - 16 selected, will depend on particular tree species)	Accuracy	Moisture < 20% ± 0.5% Moisture ≥ 20% ± 2.0% (Accuracy compared to standard resistance)	Display format	Digital (LCD, smallest displayed unit 0.1%)	Ambient cond.	0-40°C (no condensation)	Functions	Automatic temperature compensation, Average value display, Auto Off (turns Power OFF automatically after approx. 5 min) Max value alarm setting (10 - 79%, or OFF), moisture value compensation (-9.9% - 9.9%)	Power source	6Pcs. 1.5V Batteries ("AA" size Alkaline), Approx. 0.45 W	Dim. & weight	110 (W) x 210 (D) x 50 (H) mm, Net 0.5Kg / Shipment 4Kg	Accessories	4-Needle sensor, 10x Spare needles, 2x Conductive rubber pieces, Wrench, 6x 1.5V Batteries ("AA" size Alkaline), Carrying Case, Shoulder Strap, Tree species number chart (Japanese and English), Operating manual	Options	Printer VZ-390(P.31) (incl. cable VZC70), Data logger KDL-01(P.32)	<h3>Concrete/Mortar Moisture Tester HI-800</h3>  <p>Specifications</p> <table border="1"> <tr><td>Mea. method</td><td>Electric resistance</td></tr> <tr><td>Mea. range</td><td>Concrete : 0 - 10% / Mortar : 0 - 15%</td></tr> <tr><td>Accuracy</td><td>0.5% - 1.5%</td></tr> <tr><td>Mea. depth</td><td>50mm Max. available upto 150mm as optional.</td></tr> <tr><td>Power source</td><td>Batteries 4pcs. "AA" size</td></tr> <tr><td>Dimensions</td><td>75 (W) x 145 (D) x 31 (H) mm</td></tr> <tr><td>Weight</td><td>Net 0.5kg / Shipment 1.0kg</td></tr> </table> <ul style="list-style-type: none"> • Measure moisture at the desired depth • Features an upper and lower limit alarm setting and auto power off • Portable small and handy type 	Mea. method	Electric resistance	Mea. range	Concrete : 0 - 10% / Mortar : 0 - 15%	Accuracy	0.5% - 1.5%	Mea. depth	50mm Max. available upto 150mm as optional.	Power source	Batteries 4pcs. "AA" size	Dimensions	75 (W) x 145 (D) x 31 (H) mm	Weight	Net 0.5kg / Shipment 1.0kg				
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<h3>Fresh Concrete, Mortar & Sand Moisture Tester HI-300 / HI-330</h3>  <p>Specifications</p> <table border="1"> <tr><td>Mea. method</td><td>High frequency volumetric method</td></tr> <tr><td>Applications</td><td>Mortar (wet screened fresh concrete). HI-330 is for mortar or fine aggregate</td></tr> <tr><td>Mea. range</td><td>Mortar: 20-40% (volumetric ratio). Fine aggregate: ≥15% (surface moisture), Fresh concrete: 120-240 kg/m³ (unit quantity of water)</td></tr> <tr><td>Accuracy (Standard deviation)</td><td>Mortar: ± 0.3% (moisture), Fine aggregate: 0.14% (surface water), Fresh concrete 1.0 kg/m³ (unit quantity of water)</td></tr> <tr><td>Display format</td><td>Digital (LCD, smallest displayed unit 0.1%)</td></tr> <tr><td>External output</td><td>RS-232C Interface</td></tr> <tr><td>Power source</td><td>AC100V (when using 6V AC adaptor), or 6x 1.5V Batteries ("C" size)</td></tr> <tr><td>Functions</td><td>Unit water estimation, Water/cement ratio estimation, User scale logging, Composition Data logging, Average value, 126 data point memory, Auto Power OFF after 15 min. Varies between models</td></tr> <tr><td>Dim. & weight</td><td>300(W) x 264(D) x 197(H) mm, 2.5kg</td></tr> <tr><td>Accessories</td><td>Sample case, Exchange connectors, Dummy, AC adaptor, Carrying Case. Variations between models, Operating manual</td></tr> <tr><td>Options</td><td>Printer VZ-390(P.31) (incl. cable VZC12), Wet screener TZ-610(P.30)</td></tr> </table> <ul style="list-style-type: none"> • Measures moisture and unit water content of fresh concrete • Can record measurement data and register combination data 	Mea. method	High frequency volumetric method	Applications	Mortar (wet screened fresh concrete). HI-330 is for mortar or fine aggregate	Mea. range	Mortar: 20-40% (volumetric ratio). Fine aggregate: ≥15% (surface moisture), Fresh concrete: 120-240 kg/m ³ (unit quantity of water)	Accuracy (Standard deviation)	Mortar: ± 0.3% (moisture), Fine aggregate: 0.14% (surface water), Fresh concrete 1.0 kg/m ³ (unit quantity of water)	Display format	Digital (LCD, smallest displayed unit 0.1%)	External output	RS-232C Interface	Power source	AC100V (when using 6V AC adaptor), or 6x 1.5V Batteries ("C" size)	Functions	Unit water estimation, Water/cement ratio estimation, User scale logging, Composition Data logging, Average value, 126 data point memory, Auto Power OFF after 15 min. Varies between models	Dim. & weight	300(W) x 264(D) x 197(H) mm, 2.5kg	Accessories	Sample case, Exchange connectors, Dummy, AC adaptor, Carrying Case. Variations between models, Operating manual	Options	Printer VZ-390(P.31) (incl. cable VZC12), Wet screener TZ-610(P.30)	<h3>Paper Moisture Tester HK-300 Series (-1/-2/-3)</h3>  <p>Specifications</p> <table border="1"> <tr><td>Mea. method</td><td>Electrical Resistance Method</td></tr> <tr><td>Applications</td><td>Kraft paper, Liner board, Copy paper, Cardboard, etc</td></tr> <tr><td>Standard method</td><td>JIS P8127 (copy paper, cardboard)</td></tr> <tr><td>Mea. range</td><td>•HK-300-1(Grip sensor): Copy paper, 4-15% / Cardboard, 6-20% •HK-300-2(Conductive rubber sensor): Copy paper, 4-25% / Liner board, 6-23% / Kraft paper, 5-24% •HK-300-3(Constant pressure sensor): Copy paper, 2-10% / Liner board, 5-15% / Kraft paper, 2-10%</td></tr> <tr><td>Accuracy</td><td>Standard error 0.4% (at 15% moisture or less)</td></tr> <tr><td>Display format</td><td>Digital (LCD, smallest displayed unit 0.1%)</td></tr> <tr><td>Power source</td><td>6X 1.5V ("AA" size Alkaline), approx 0.45W</td></tr> <tr><td>Dim. & weight</td><td>110(W) x 210(D) x 50(H)mm, 0.5kg</td></tr> <tr><td>Accessories</td><td>Carrying Case, Shoulder Strap, 6x 1.5V batteries ("AA" size Alkaline)</td></tr> <tr><td>Options</td><td>Printer VZ-390(P.31) (incl. cable VZC70), Data logger KDL-01(P.32)</td></tr> </table> <ul style="list-style-type: none"> • Select from 3 types of sensors • Measure by simply using the sensor on an object to measure 	Mea. method	Electrical Resistance Method	Applications	Kraft paper, Liner board, Copy paper, Cardboard, etc	Standard method	JIS P8127 (copy paper, cardboard)	Mea. range	•HK-300-1(Grip sensor): Copy paper, 4-15% / Cardboard, 6-20% •HK-300-2(Conductive rubber sensor): Copy paper, 4-25% / Liner board, 6-23% / Kraft paper, 5-24% •HK-300-3(Constant pressure sensor): Copy paper, 2-10% / Liner board, 5-15% / Kraft paper, 2-10%	Accuracy	Standard error 0.4% (at 15% moisture or less)	Display format	Digital (LCD, smallest displayed unit 0.1%)	Power source	6X 1.5V ("AA" size Alkaline), approx 0.45W	Dim. & weight	110(W) x 210(D) x 50(H)mm, 0.5kg	Accessories	Carrying Case, Shoulder Strap, 6x 1.5V batteries ("AA" size Alkaline)	Options	Printer VZ-390(P.31) (incl. cable VZC70), Data logger KDL-01(P.32)
Mea. method	High frequency volumetric method																																										
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G.P. Moisture Testers		Other Special Purpose Moisture Testers		G.P. Moisture Testers																																											
Grain Moisture Testers	Wood Moisture Testers	Concrete Moisture Testers	Paper Moisture Testers	Grain Moisture Testers	Wood Moisture Testers																																										
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<p>Specifications</p> <table> <tr><td>Mea. method</td><td>Capacitance</td></tr> <tr><td>Mea. range</td><td>0 - 33%</td></tr> <tr><td>Accuracy</td><td>Depends on sample</td></tr> <tr><td>Power source</td><td>Battery 9V (6LF22 Alkaline)</td></tr> <tr><td>Dimensions</td><td>72 (W) x 150 (D) x 25 (H) mm</td></tr> <tr><td>Weight</td><td>Net 0.15kg / Shipment 1.5kg</td></tr> </table> <ul style="list-style-type: none"> •Measures average moisture up to 50 mm deep with non-destructive measurement •Built-in 11 pre-installed calibration curves 	Mea. method	Capacitance	Mea. range	0 - 33%	Accuracy	Depends on sample	Power source	Battery 9V (6LF22 Alkaline)	Dimensions	72 (W) x 150 (D) x 25 (H) mm	Weight	Net 0.15kg / Shipment 1.5kg		<p>Specifications</p> <table> <tr><td>Mea. method</td><td>Electrical resistance</td></tr> <tr><td>Applications</td><td>Jute</td></tr> <tr><td>Mea. range</td><td>6-100% (Dry base)</td></tr> <tr><td>Accuracy</td><td>Standard error of 0.9% or less (Moisture values of 20% or lower)</td></tr> <tr><td>Display format</td><td>Digital (LCD)</td></tr> <tr><td>Ambient cond.</td><td>0-45°C (no condensation)</td></tr> <tr><td>Power source</td><td>6PCS. 1.5V Batteries ("AA" size Alkaline)</td></tr> <tr><td>Dim. & weight</td><td>110(W)X210(D)X50(H)mm, Net 0.5kg Shipment 440(W)x400(D)x160(H), 4.3kg</td></tr> <tr><td>Accessories</td><td>Pressure sensor, Two needle sensor with three different length needles (4/8/12 inches, 2pcs/each), Shoulder strap, 1.5V alkaline battery 6pcs, Carrying case, Wrench, Operation manual</td></tr> </table> <ul style="list-style-type: none"> •Can measure domestic and imported jute from producing countries such as India and Bangladesh 	Mea. method	Electrical resistance	Applications	Jute	Mea. range	6-100% (Dry base)	Accuracy	Standard error of 0.9% or less (Moisture values of 20% or lower)	Display format	Digital (LCD)	Ambient cond.	0-45°C (no condensation)	Power source	6PCS. 1.5V Batteries ("AA" size Alkaline)	Dim. & weight	110(W)X210(D)X50(H)mm, Net 0.5kg Shipment 440(W)x400(D)x160(H), 4.3kg	Accessories	Pressure sensor, Two needle sensor with three different length needles (4/8/12 inches, 2pcs/each), Shoulder strap, 1.5V alkaline battery 6pcs, Carrying case, Wrench, Operation manual															
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Accessories	Pressure sensor, Two needle sensor with three different length needles (4/8/12 inches, 2pcs/each), Shoulder strap, 1.5V alkaline battery 6pcs, Carrying case, Wrench, Operation manual																																														
Copra Moisture Tester HX-120				Cotton Moisture Tester HX-500																																											
																																															
<p>Specifications</p> <table> <tr><td>Mea. method</td><td>Electrical resistance</td></tr> <tr><td>Applications</td><td>Copra</td></tr> <tr><td>Standard method</td><td>ISO 665</td></tr> <tr><td>Mea. range</td><td>3-20% (Dry base)</td></tr> <tr><td>Accuracy</td><td>Standard error 0.4% (moisture values of 10% or lower)</td></tr> <tr><td>Display</td><td>Digital (LCD)</td></tr> <tr><td>Resolution</td><td>0.1%</td></tr> <tr><td>Ambient cond.</td><td>0-40°C (no condensation)</td></tr> <tr><td>Functions</td><td>Moisture value bias adjustment (-9.9 to +9.9%), Average value, Upper limit alarm, Automatic temperature compensation, Auto Power off (automatically turns off after approx. 5 minutes)</td></tr> <tr><td>Power supply</td><td>6Pcs. 1.5 V batteries (AA alkaline), approx. 0.45 W</td></tr> <tr><td>Dimensions</td><td>110 Mm (W) x 210 mm (D) x 50 mm (H)</td></tr> <tr><td>Weight</td><td>0.5 Kg / Shipment 4kg</td></tr> <tr><td>Accessories</td><td>Two needle probe, Wrench, Shoulder Strap, 6pcs 1.5 V battery (AA alkaline), Carrying Case, Operating Manual</td></tr> <tr><td>Options</td><td>Printer VZ-390(P.31) (incl. cable VZC70)</td></tr> </table> <ul style="list-style-type: none"> •Moisture tester exclusive for copra •Measures by inserting the sensor needles into the copra 	Mea. method	Electrical resistance	Applications	Copra	Standard method	ISO 665	Mea. range	3-20% (Dry base)	Accuracy	Standard error 0.4% (moisture values of 10% or lower)	Display	Digital (LCD)	Resolution	0.1%	Ambient cond.	0-40°C (no condensation)	Functions	Moisture value bias adjustment (-9.9 to +9.9%), Average value, Upper limit alarm, Automatic temperature compensation, Auto Power off (automatically turns off after approx. 5 minutes)	Power supply	6Pcs. 1.5 V batteries (AA alkaline), approx. 0.45 W	Dimensions	110 Mm (W) x 210 mm (D) x 50 mm (H)	Weight	0.5 Kg / Shipment 4kg	Accessories	Two needle probe, Wrench, Shoulder Strap, 6pcs 1.5 V battery (AA alkaline), Carrying Case, Operating Manual	Options	Printer VZ-390(P.31) (incl. cable VZC70)		<p>Specifications</p> <table> <tr><td>Mea. method</td><td>Electrical Resistance Method</td></tr> <tr><td>Applications</td><td>Raw cotton, Cotton bale, Cotton thread</td></tr> <tr><td>Mea. range</td><td>See 3."Calibration Curve List"</td></tr> <tr><td>Display</td><td>Digital (LCD)</td></tr> <tr><td>Power source</td><td>1.5V batteries (AA alkaline) x 6</td></tr> <tr><td>Dim. & weight</td><td>110(W) x 210(D) x 50(H)mm, 0.5kg</td></tr> <tr><td>Accessories</td><td>Pressure sensor (for raw cotton), 2 needle probe (2 measurement needle 2 lengths)Shoulder strap, 1.5V batteries (AA alkaline x 6), Wrench, Acrylic plate, Carrying case Operating manual</td></tr> <tr><td>Options</td><td>Printer VZ-390 with cable VZC70, Data Logger software HDL-03</td></tr> </table>	Mea. method	Electrical Resistance Method	Applications	Raw cotton, Cotton bale, Cotton thread	Mea. range	See 3."Calibration Curve List"	Display	Digital (LCD)	Power source	1.5V batteries (AA alkaline) x 6	Dim. & weight	110(W) x 210(D) x 50(H)mm, 0.5kg	Accessories	Pressure sensor (for raw cotton), 2 needle probe (2 measurement needle 2 lengths)Shoulder strap, 1.5V batteries (AA alkaline x 6), Wrench, Acrylic plate, Carrying case Operating manual	Options	Printer VZ-390 with cable VZC70, Data Logger software HDL-03	
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Tatami (straw mat) Moisture Tester HX-300				Biomass Fuel Moisture Tester HI-700																																											
																																															
<p>Specifications</p> <table> <tr><td>Mea. method</td><td>Electrical Resistance Method</td></tr> <tr><td>Applications and Mea. range</td><td>Tatami surface matting : 8-20%, Rice straw stuffing 7-25%, Tatami board (wooden board flooring material) : 7-35%</td></tr> <tr><td>Accuracy</td><td>Standard error : Tatami surface matting 0.8% or less, Rice straw stuffing 1.3% or less, Tatami board 1.3% or less</td></tr> <tr><td>Display format</td><td>Digital (LCD, smallest displayed unit 0.1%)</td></tr> <tr><td>Ambient cond.</td><td>0-40°C (no condensation)</td></tr> <tr><td>Functions</td><td>Automatic temperature compensation, Average value display, Max value alarm setting (10 - 79%, or OFF), Auto Off (turns Power OFF automatically after approx. 5 min), Moisture value compensation (-9.9% - 9.9%)</td></tr> <tr><td>Power source</td><td>6Pcs. 1.5V Batteries ('AA' size Alkaline)</td></tr> <tr><td>Dim. & weight</td><td>110 (W) x 210(D) x 50(H) mm, 0.5 kg / Shipment 4kg</td></tr> <tr><td>Accessories</td><td>2-Needle sensor, 4pcs Spare needles, Spacer for sensor needles, Wrench, Shoulder Strap, 6pcs 1.5V Batteries ('AA' size Alkaline),etc.</td></tr> </table> <ul style="list-style-type: none"> •Moisture tester exclusive for the surface and inner parts of tatami mats •Measures by sticking a needle at the tip of the sensor 	Mea. method	Electrical Resistance Method	Applications and Mea. range	Tatami surface matting : 8-20%, Rice straw stuffing 7-25%, Tatami board (wooden board flooring material) : 7-35%	Accuracy	Standard error : Tatami surface matting 0.8% or less, Rice straw stuffing 1.3% or less, Tatami board 1.3% or less	Display format	Digital (LCD, smallest displayed unit 0.1%)	Ambient cond.	0-40°C (no condensation)	Functions	Automatic temperature compensation, Average value display, Max value alarm setting (10 - 79%, or OFF), Auto Off (turns Power OFF automatically after approx. 5 min), Moisture value compensation (-9.9% - 9.9%)	Power source	6Pcs. 1.5V Batteries ('AA' size Alkaline)	Dim. & weight	110 (W) x 210(D) x 50(H) mm, 0.5 kg / Shipment 4kg	Accessories	2-Needle sensor, 4pcs Spare needles, Spacer for sensor needles, Wrench, Shoulder Strap, 6pcs 1.5V Batteries ('AA' size Alkaline),etc.		<p>Specifications</p> <table> <tr><td>Mea. method</td><td>Capacitance (Dielectric) (50MHz)</td></tr> <tr><td>Applications</td><td>Solid biomass fuel: PKS (Dura / Tenera), Wood pellet, Rice husk, Saw dust (Normal / Chain saw)</td></tr> <tr><td>Mea. range</td><td>3-60% (Sample dependent)</td></tr> <tr><td>Sample volume</td><td>240 mL</td></tr> <tr><td>Ambient cond.</td><td>0-40 °C</td></tr> <tr><td>Accuracy</td><td>Standard error of 1.0% or less versus standard method. (all samples with moisture content of less than 20%)</td></tr> <tr><td>Functions</td><td>Weight scale, Automatic temperature correction by integrated thermistor, Auto-power off, Auto-display for battery level icon, Average</td></tr> <tr><td>Other functions</td><td>Average, auto Power off</td></tr> <tr><td>Display</td><td>Digital (LCD)</td></tr> <tr><td>Power source</td><td>4Pcs. 1.5V Batteries ("R6" or "AA" size), 240 mW</td></tr> <tr><td>Dimensions</td><td>125 (W) x 205 (D) x 215 (H) mm</td></tr> <tr><td>Weight</td><td>Net 1.3kg / Shipment 4.0kg</td></tr> <tr><td>Accessories</td><td>Funnel, Manual hopper(sample cup), Brush, Batteries(1.5V AA size x4), Operating manual</td></tr> </table> <ul style="list-style-type: none"> •Measures moisture of PKS, wood pellet, saw dust, etc in a few seconds •Non-destructive measurement by only placing a sample 	Mea. method	Capacitance (Dielectric) (50MHz)	Applications	Solid biomass fuel: PKS (Dura / Tenera), Wood pellet, Rice husk, Saw dust (Normal / Chain saw)	Mea. range	3-60% (Sample dependent)	Sample volume	240 mL	Ambient cond.	0-40 °C	Accuracy	Standard error of 1.0% or less versus standard method. (all samples with moisture content of less than 20%)	Functions	Weight scale, Automatic temperature correction by integrated thermistor, Auto-power off, Auto-display for battery level icon, Average	Other functions	Average, auto Power off	Display	Digital (LCD)	Power source	4Pcs. 1.5V Batteries ("R6" or "AA" size), 240 mW	Dimensions	125 (W) x 205 (D) x 215 (H) mm	Weight	Net 1.3kg / Shipment 4.0kg	Accessories	Funnel, Manual hopper(sample cup), Brush, Batteries(1.5V AA size x4), Operating manual	
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G.P. Moisture Testers
Hay Moisture Tester HX-700

• Moisture tester exclusive for pasture grass • Measures by inserting the sensor into pasture grass
Other Moisture Testers

Other Special Purpose Moisture Testers

Hay Moisture Tester HX-700

Specifications

Mea. method	Electrical resistance
Mea. range	8 - 30% (Depends on calibration & samples)
Accuracy	Standard error of 1% or less
Ambient cond.	0-40°C (no condensation)
Power source	6Pcs. 1.5V Batteries ("AA" size Alkaline)
Dimensions	110 (W) x 210 (D) x 50 (H) mm
Weight	Net 0.5kg / Shipment 4kg

- Moisture tester exclusive for pasture grass
- Measures by inserting the sensor into pasture grass

NIR Rice Composition Analyzer AN-820



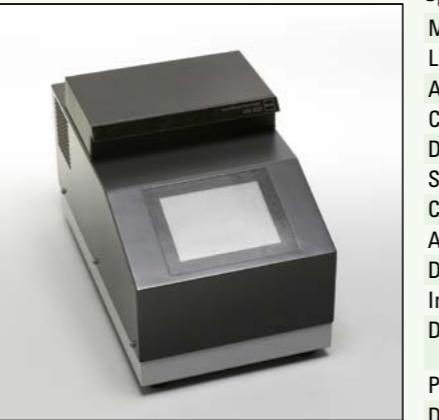
- Measures moisture, protein and amylose content of rice
- Displays quality evaluation value of unpolished and polished rice

Specifications

Mea. method	Near-Infrared Transmittance
Light source	Tungsten lamp (life 20,000hr)
Applications	Brown Rice, Milled rice option: High-moisture unpolished rice, Wash-free rice, Unpolished rice for sake
Compositions	Moisture, Protein, Amylose (reference value)
Display range	Moisture 10-20%, Protein 4-10%, Amylose 15-25% (reference value)
Sample volume	Approx. 60 mL
Calibration curve	Memory Capacity : 4 Components x 8 Channels
Ambient cond.	10-35°C
Display	320 x 240 dot matrix backlit LCD
Input/Output	RS-232C, Printer output terminal
Display content	Calibration curve label, Protein value, Moisture value, Amylose value (reference value), Quality rating value
Power source	AC100V - 240V (50/60 Hz)
Dim. & weight	260(W) x 350(D) x 380(H)mm, 13kg
Accessories	Power cable, 2x Sample case, Sampling cup, Spare fuse, Each of standard sample (Brown rice, Milled rice), Storage container (standard sample)
Options	Printer VZ-810(P.31) (incl. cable VZC20), Data logger software NDL-04(P.33)

Composition Analyzers

NIR Rice Composition Analyzer AN-920



- The operation is easy to understand by installing the touch panel
- Displays moisture, protein, amylose content and quality evaluation value

Specifications

Mea. method	Near-Infrared Transmittance
Light source	Tungsten lamp (life 20,000hr)
Applications	Brown Rice, Milled rice
Compositions	Moisture, Protein, Amylose (reference value)
Display range	Moisture 10-20%, Protein 4-10%, Amylose 15-25% (reference value)
Sample volume	Approx. 60 mL
Calibration curve	Memory Capacity : 4 Components x 8 Channels
Ambient cond.	10-35°C
Display	5.7-Inch touch panel color LCD
Input/Output	RS-232C, USB, TCP/IP
Display content	Protein value, Moisture value, Amylose value (reference value), Quality rating value
Power source	AC100V - 240V (50/60 Hz)
Dim. & weight	230(W) x 400(D) x 250(H)mm, 8.5kg
Accessories	Power cable, 2x Sample case, Sampling cup, Spare fuse, Each of standard sample with storage container (Brown rice, Milled rice), Operating Manual
Options	Printer VZ-800(P.31), Data logger software NDL-04(P.33)

Composition Analyzers

NIR Laver Composition Analyzer KBL-3000



Specifications

Mea. method	Near-infrared reflection, light projected/ received at the bottom plane
Mea. diameter	Approx. φ25mm
Applications	Dried laver, Roast laver, Korean seasoned laver
Compositions	Moisture, Protein
Number of calibration curves	50
Mea. time	Normal measurement: 9 sec. (subject to the setting) Continuous measurement: 0.5 sec. interval
Display	Organic EL
Input/Output	USB (for PC I/O), RS-232C (for printer output)
Power source	AC100-240V (50/60Hz), 40W
Dim. & weight	415(W) x 370(D) x 226(H), 12kg
Accessories	Light shielding cover, Zero-adjustment plate, power cable, spare fuse, operating manual

Grain Moisture Testers

Wood Moisture Testers

Concrete Moisture Testers

Paper Moisture Testers

Other Moisture Testers

Composition Analyzers

Quality Judging Instruments

Whiteness Testers

Coating Thickness Testers

Metal Detector

Physical Properties Instruments

Mea. Auxiliary Instruments

Printer

Software

G.P. Moisture Testers	Grain Moisture Testers	Wood Moisture Testers	Concrete Moisture Testers	Paper Moisture Testers	Other Moisture Testers	Composition Analyzers	Quality Judging Instruments	Whiteness Testers	Coating Thickness Testers	Metal Detector	Physical Properties Instruments	Auxiliary Instruments	Mea. Instruments	Printer	Software
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NIR Composition Analyzer KB-270



- Desktop analyzer uses reflected light of near-infrared light
- Displays results in several seconds after applying light

Composition Analyzers

Specifications

Mea. method	Near-infrared reflection, light projected/received at the bottom plane
Mea. diameter	approx. Ø25mm
Number of calibration curves	50
Mea. time	Normal measurement: 9 sec. (subject to the setting) Continuous measurement: 0.5 sec. interval
Display	Organic EL
Input/Output	USB (for PC I/O), RS-232C (for printer output)
Power source	AC100-240V(50/60Hz)
Dim. & weight	415(W) x 370(D) x 226(H)mm, 13 kg
Accessories	Light shielding cover, petri dish with 90 mm diafor samples, sample holder, zero-adjustmentplate, power cable, spare fuse, wireless LANrouter, PC software, and operating manual
Options	Printer VZ-800(P.31)

NIR Composition Analyzer KJT-70-5 / 70-7



- Measures up to four ingredients simultaneously
- Data logging/calibration curve creation by connecting with a PC

Composition Analyzers

Specifications

Mea. method	Near infrared Reflectance
Mea. distance	170mm±10mm
Mea. diameter	Ø40mm (at 170mm), Option Ø15mm
Light source	Tungsten lamp (20000 hours or more)
Display	Red color 7 segment LED
External comm.	RS-232C / RS-485, DC4-20mA
Analytical curves	50
Ambient cond.	0 - 40°C, 0 - 95RH (no condensation)
Power source	AC 100V-220V±10% (50/60Hz), 50VA
Protection	Against dust and drop-proof
Dim. & weight	322(W) x 176(D) x 319(H)mm, 8 kg (with cooling fan 9.3 kg)
Accessories	Power cable, Zero adjustment plate, Mounting bolt, etc.
Options	Controller KJT-CNT2(P.28), etc.

NIR Composition Analyzer KJT-700



- Standard model of in-line analyzer that handles distance fluctuation well
- Measures up to four ingredients simultaneously

Composition Analyzers

Specifications

Mea. method	Near infrared Reflectance
Mea. distance	350mm±50mm
Mea. diameter	Ø50mm (at 350mm)
Light source	Tungsten lamp (20000 hours or more)
Display	Red color 7 segment LED
External comm.	99
Analytical curves	0 - 40°C, 0 - 95%RH (no condensation)
Ambient cond.	RS-485x2, DC4-20mA
Power source	AC 100V-220V±10% (50/60Hz), 50VA
Protection	Against dust and drop-proof
Dim. & weight	361(W) x 177(D) x 451(H)mm, 11 kg
Accessories	Power cable, Zero adjustment plate, Mounting bolt, etc.
Options	Controller KJT-CNT2(P.28), etc.

G.P. Moisture Testers	Grain Moisture Testers	Wood Moisture Testers	Concrete Moisture Testers	Paper Moisture Testers	Other Moisture Testers	Composition Analyzers	Quality Judging Instruments	Whiteness Testers	Coating Thickness Testers	Metal Detector	Physical Properties Instruments	Auxiliary Instruments	Mea. Instruments	Printer	Software
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G.P.	Moisture Testers
Grain Moisture Testers	Wood Moisture Testers
Concrete Moisture Testers	Paper Moisture Testers
Other Moisture Testers	Composition Analyzers
Instruments	Quality Judging Instruments
Whiteness Testers	Coating Thickness Testers
Metal Detector	Physical Properties Instruments
Auxiliary Instruments	Mea. Instruments
Printer	Software

Input and output specification

KJT-700



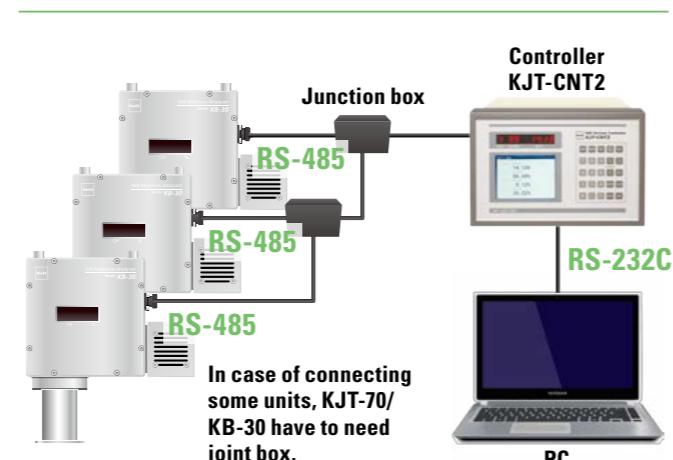
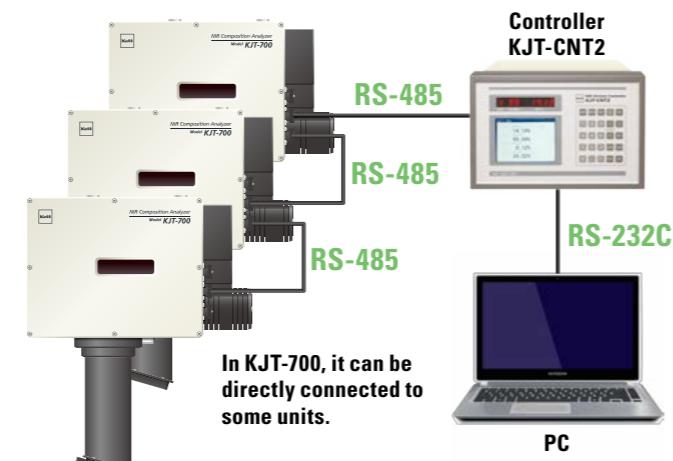
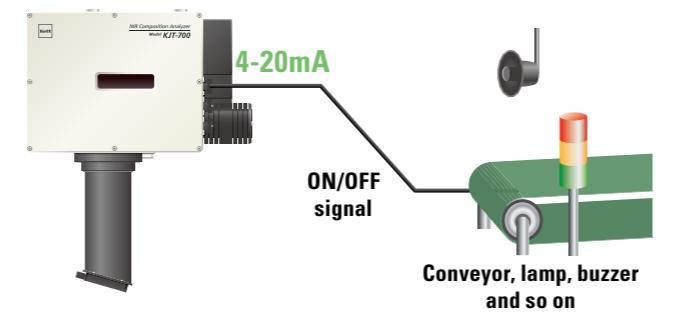
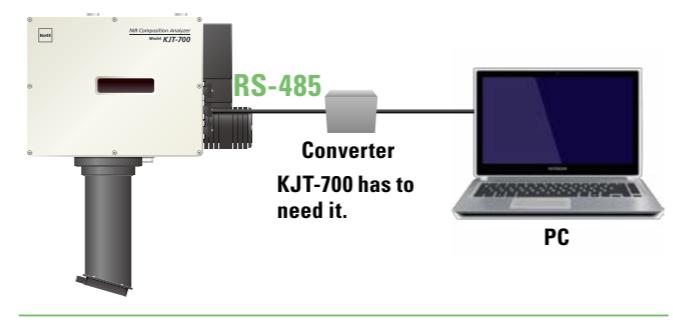
KJT-70



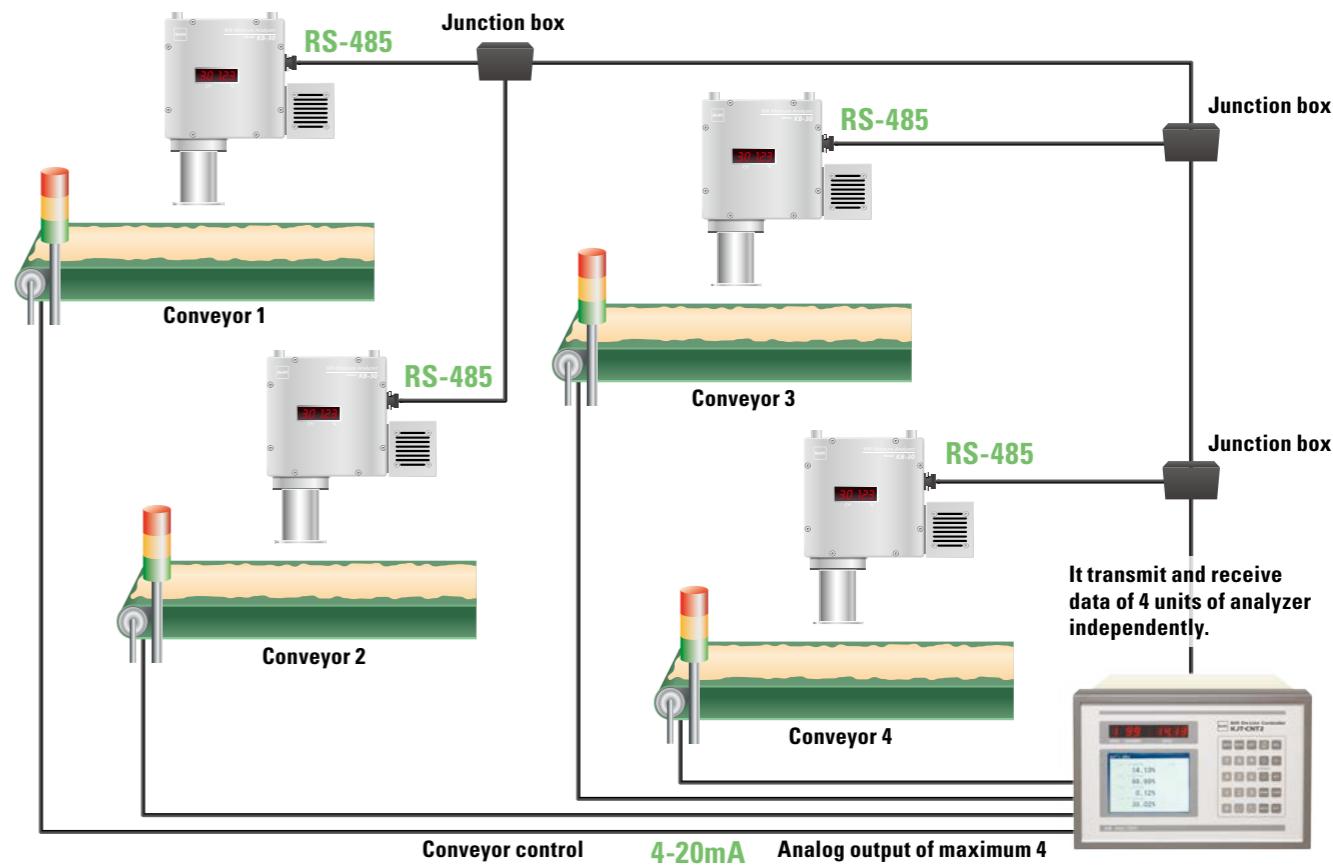
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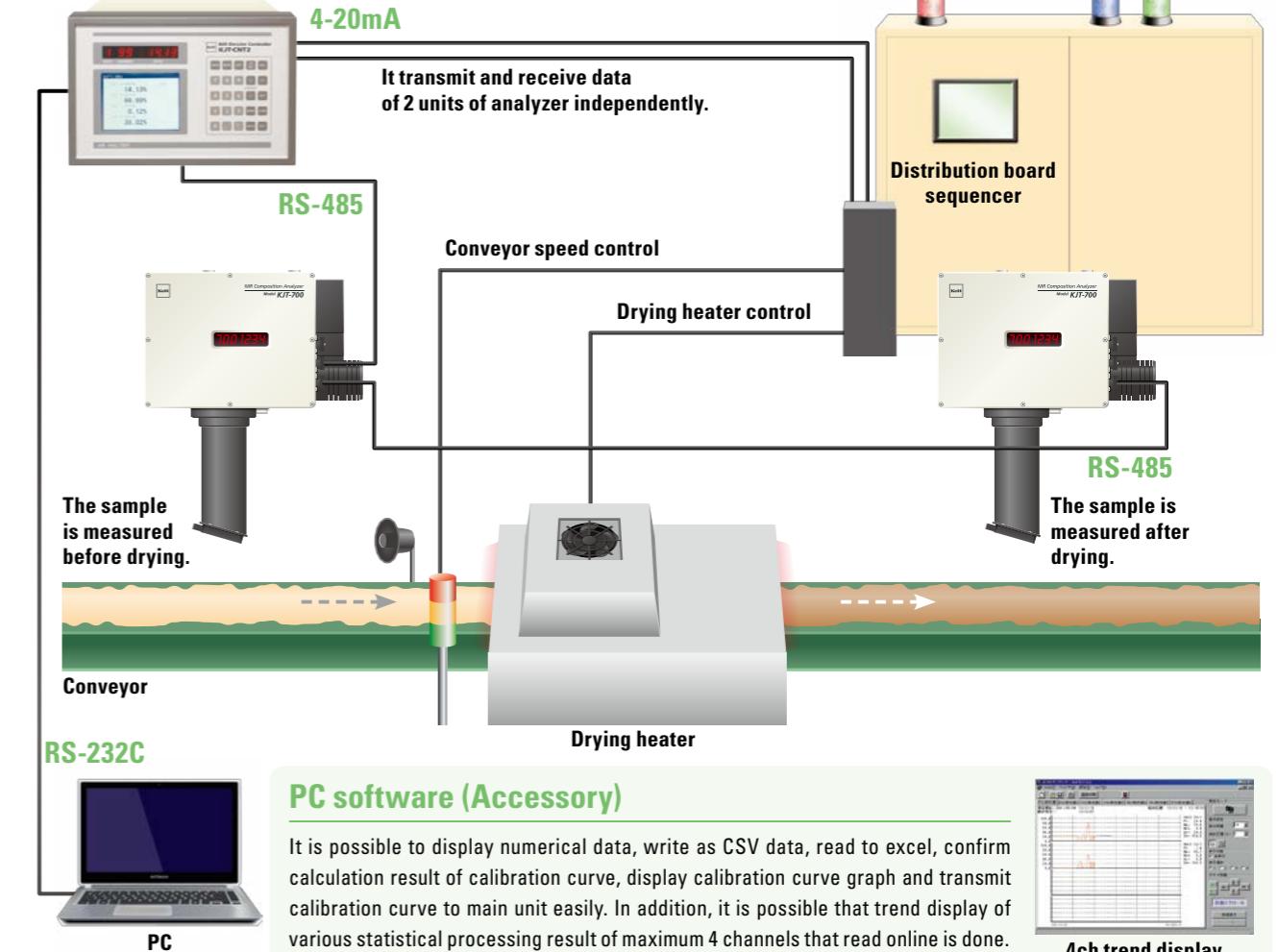
Connection example



Configuration example

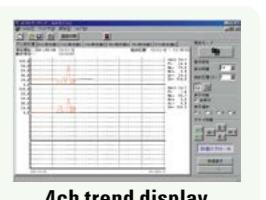


Controller KJT-CNT2



G.P.	Moisture Testers
Grain Moisture Testers	Wood Moisture Testers
Concrete Moisture Testers	Paper Moisture Testers
Other Moisture Testers	Composition Analyzers
Instruments	Quality Judging Instruments
Whiteness Testers	Coating Thickness Testers
Metal Detector	Physical Properties Instruments
Auxiliary Instruments	Mea. Instruments
Printer	Software

G.P.	Moisture Testers
Grain Moisture Testers	Wood Moisture Testers
Concrete Moisture Testers	Paper Moisture Testers
Other Moisture Testers	Composition Analyzers
Instruments	Quality Judging Instruments
Whiteness Testers	Coating Thickness Testers
Metal Detector	Physical Properties Instruments
Auxiliary Instruments	Mea. Instruments
Printer	Software



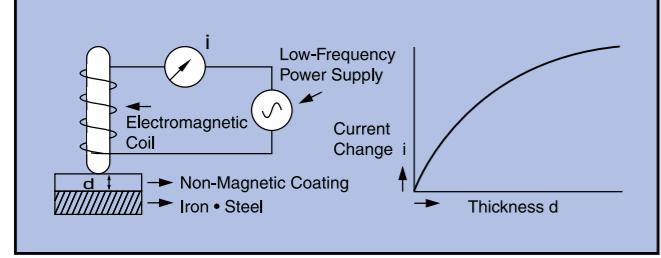
G.P. Moisture Testers		Quality Judging Instruments		Whiteness Testers																																																																																			
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Principle of measurement

Electromagnetic induction method :

For measuring the thickness of non-magnetic coatings on magnetic metal substrates.

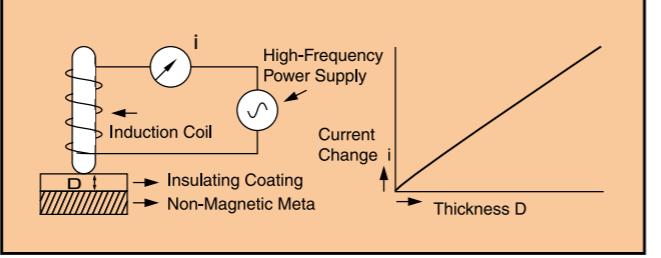
When an alternating current electromagnet is brought near iron (or other magnetic metal) the number of magnetic flux lines passing through the coil changes in proportion to the distance, thereby causing a change in the voltage at the ends of the coil. This change in voltage is determined from the current value and this is used to compute the thickness of the coating.



Eddy Current method :

For measuring the thickness of insulating coatings on non-magnetic metal substrates.

An eddy current is produced in the surface of a metal when a coil through which a current of fixed frequency is brought near the metal. This eddy current and the voltage at the ends of the coil change in proportion to the distance between the coil and the metal surface. This change can be determined from the current value and this is used to calculate the thickness of the coating.



Selection table for coating thickness measurement methods

		Coating Thickness Testers	Quality Judging Instruments	Whiteness Testers	Composition Analyzers	Other Moisture Testers	Paper Moisture Testers	Wood Moisture Testers	Concrete Moisture Testers	Grain Moisture Testers	G.P. Moisture Testers
Coating	Substrate										
Iron and Steel	Iron and Steel	■	■	■	■	■	■	■	■	■	■
Kovar	Iron and Steel	■	■	■		■	■	■	■	■	■
Steel (non-magnetic)	Iron and Steel						■				
Aluminium and alloys	Iron and Steel						■	■			
Copper and alloys	Iron and Steel						■	■			
Silver	Iron and Steel						■				
Titanium and alloys	Iron and Steel						■				
Zinc and alloy	Iron and Steel						■				
Glass Ceramic Plastic	Iron and Steel										
	Enamel, Paint, Rubber, Plastics										
	Anodizing Chromate, Phosphate										
	Chromium										
	Cadmium										
	Gold										
	Solder										
	Copper										
	Lead										
	Aluminium										

* Coating thickness of some type of stainless steel may not be measurable. Contact us for detail.

■ Electromagnetic Induction Method ■ Eddy-Current Method

Figure of probe external form (Reduced scale lack of unity)

Probe type	Normal type probe : LEP-J / LHP-J	L shape probe : LEP-21L / LHP-21L / EP-110 / HP-110
Product model	LE-373 / LH-373 / LZ-373	LE-373 / LH-373 / LZ-373 / L-500
Dimensions		
Probe type	Probe for pipe inside measurement : LEP-22/EP-120/HP-120	
Product model	LE-373 / LZ-373 / L-500	
Dimensions		

The contents of an attached calibration foil.

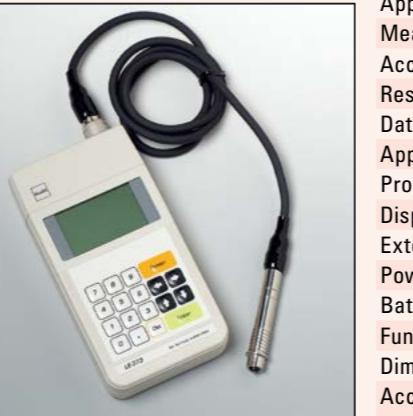
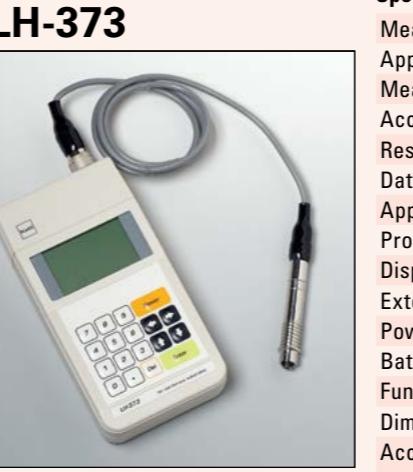
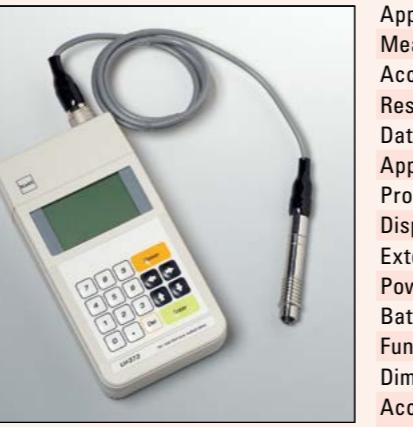
Model	Qty	Thickness(μm)							Material
L-500	6	10	50	100			500		1000 1500 Polyester Film
LE-373 / LZ-373	6	10	50	100			500		1000 1500 Polyester Film
LH-373	5	10	50	100			500		1000 Polyester Film
LZ-990	3		50	100					1000 Polyester Film
Optional foils for all the models	-	10 25 37	50 75	100 125 250	300 350	500 700	800	1000 1500 3000	Polyester Film

Attention : The thickness of calibration foils attached to the product sets the thing which we really measured. Therefore, it is not numerical value same as a list shown below.

Conformity Standard

Measurement method	Model	Standard			
Electromagnetic Induction	L-500 LE-373	JIS K5600-1-7, JIS H0401, JIS H8401, JIS H8501, JIS H8641 / ISO 1460, ISO 2064, ISO 2178, ISO 2808, ISO 19840 / BS 3900-C5 / ASTM B 499, ASTM D 7091-5, ASTM E 376			
Eddy-current	L-500 LH-373	JIS K5600-1-7, JIS H8501, JIS H8680-2 / ISO 2064, ISO 2360, ISO 2808, ISO 19840 / BS 3900-C5 / ASTM B 244, ASTM D 7091-5, ASTM E 376			
Electromagnetic Induction and Eddy-current	L-500 LZ-373 LZ-990	Electromagnetic Induction	JIS K5600-1-7, JIS H0401, JIS H8401, JIS H8501, JIS H8641 / ISO 1460, ISO 2064, ISO 2178, ISO 2808, ISO 19840 / BS 3900-C5 / ASTM B 499, ASTM D 7091-5, ASTM E 376		
		Eddy-current	JIS K5600-1-7, JIS H8501, JIS H8680-2 / ISO 2064, ISO 2360, ISO 2808, ISO 19840 / BS 3900-C5 / ASTM B 244, ASTM D 7091-5, ASTM E 376		

G.P. Moisture Testers	Grain Moisture Testers	Wood Moisture Testers	Concrete Moisture Testers	Paper Moisture Testers	Other Moisture Testers	Composition Analyzers	Quality Judging Instruments	Whiteness Testers	Coating Thickness Testers	Metal Detector	Physical Properties Instruments	Me. Auxiliary Instruments	Instruments	Printer	Software

G.P. Moisture Testers		Coating Thickness Testers		G.P. Moisture Testers	
Moisture Testers	Grain Moisture Testers	Coating Thickness Testers	Coating Thickness Testers	Moisture Testers	Grain Moisture Testers
Coating Thickness Tester L-500			Electromagnetic Coating Thickness Tester LE-373		
Specifications		Specifications	Specifications		
Mea. method	Electromagnetic induction / Eddy-current (Depends on optional probe connected)	Mea. method	Electromagnetic Induction Method	Applications	Non-magnetic coating on ferrous metal
Applications	Non-magnetic coating on iron and steel (ferrous) substrates Insulating coatings on non-ferrous substrates	Mea. range	0-2500µm or 99.0mils	Accuracy	<50 µm ± 1 µm, ≥50 µm to <1000 µm ± 2%, ≥1000 µm ± 3%
Resolution	0.1µm (less than 100µm), 1µm (100µm or greater)	Resolution	<100µm, 0.1 µm; ≥100 µm, 1 µm	Data memory	Approx. 39,000 points
Data memory	Approx. 24,000 points	App. memory	100 Types of calibrations curves	Probe	Single-point constant-pressure type probe (LEP-J)
Functions	Number of measurements, Average value, Standard deviation, Maximum value, Minimum value, Block numbers, Group numbers	Display method	Digital (LCD with backlit, smallest displayed unit 0.1 µm)	External output	PC(USB or RS-232C), printer(RS-232C)
Probe	EP-100 / HP-100 (not included)	Power supply	1.5V alkaline batteries ("AA" size x 4), 80 mW (with backlit off)	Battery life	100 Hours (continuous use with backlit off)
Output	USB	Functions	16 Types of internal functions	Dim. & weight	75(W) x 145(D) x 31(H) mm, 0.34 kg
Power source	AC100-240V (50/60Hz) or 1.5 ("AA" size Alkaline batteries) x 4 (main unit), Printer ("AA" size Alkaline batteries) x 4	Dim. & weight	75(W) x 145(D) x 31(H) mm, 0.34 kg	Accessories	Calibration plate set, Ferrous metal substrate, Carrying Case, 1.5V alkaline batteries ("AA" size x 4), Probe adaptor, Operating manual
Dim. & weight	126(W) x 256(D) x 93(H)mm, 0.75kg	Options	Calibration plates (thicknesses other than those available as standard accessories), Measuring stand LW-990(P.28), Printer VZ-380, USB converter, Data logger software LDL-03(P.33), Data management software "McWave Series" and "MultiProp"		
Accessories	Calibration plate, Iron substrate, Aluminium substrate, Batteries (1.5V, "AA" size Alkaline), Probe adapter, AC adapter, Printer paper, Carrying Case, Operating manual				
Options	Electromagnetic Probe "EP-100", Eddy-current Probe "HP-100", Calibration plates (thicknesses other than those available as standard accessories), Measuring stand LW-990(P.26)				
•Flagship model with built-in printer •Electromagnetic and eddy current probes are sold separately		•Mid-class model •Measurement Range of 0 - 2500 µm •Records 39000 data sets, statistical calculation function			
Electromagnetic Probe EP-100			Eddy-current Coating Thickness Tester LH-373		
Specifications		Specifications	Specifications		
Mea. method	Electromagnetic induction	Mea. method	Eddy-current Method	Applications	Insulating coating on non-ferrous metal substrate
Applications	Non-magnetic coating on iron and steel (ferrous) substrates	Mea. range	0-1200µm or 47.0mils	Accuracy	<50 µm ± 1 µm, ≥50 µm to <1000 µm ± 2%, ≥1000 µm ± 3%
Mea. range	0-2500µm or 99.0mils	Resolution	<100 µm, 0.1 µm; ≥100 µm, 1 µm	Data memory	Approx. 39,000 points
Accuracy	Under 15µm: ±0.3µm, 15 to 1000µm: ±2%, 1000µm or greater: ±3%	App. memory	100 Types of calibrations curves	Probe	Single-point constant-pressure type probe (LHP-J)
App. memory	50 Types of calibrations curves	Display method	Digital (LCD with backlit, smallest displayed unit 0.1 µm)	External output	PC(USB or RS-232C), printer(RS-232C)
Dimensions	Φ13 x 90(L) mm (sensor part excluding cable)	Power supply	1.5V alkaline batteries ("AA" size x 4), 80 mW (with backlit off)	Battery life	100 Hours (continuous use with backlit off)
•Compatible with coating thickness tester L-500 •Electromagnetic probe (for magnetic metal) •Stores up to 50 applications		•Mid-class model •Measurement Range of 0 - 1200 µm •Records 39000 data sets, statistical calculation function			
Eddy-current Probe HP-100			Dual-Type Coating Thickness Tester LZ-373		
Specifications		Specifications	Specifications		
Mea. method	Eddy-current	Mea. method	Uses both Electromagnetic Induction and Eddy-current Methods	Applications	Non-magnetic coating on ferrous metal substrate and insulating coating on non-ferrous metal substrate
Applications	Insulating coatings on non-ferrous substrates	Mea. range	Electromagnetic Induction : 0-2500µm or 99.0mils Eddy-current : 0-1200µm or 47.0mils	Accuracy	<50 µm ± 1 µm, ≥50 µm to <1000 µm ± 2%, ≥1000 µm ± 3%
Mea. range	0-1200µm or 47.0mils	Resolution	<100 µm, 0.1 µm; ≥100 µm, 1 µm	Data memory	Approx. 39,000 points
Accuracy	Under 50µm : ±1µm, 50µm or greater : ±2%	App. memory	50 Types of electromagnetic calibrations curves, 50 types of eddy current calibration curves.	Probe	Single-point constant-pressure type probe (LEP-J, LHP-J)
App. memory	50 Types of calibrations curves	Display method	PC(USB or RS-232C), printer(RS-232C)	External output	1.5V alkaline batteries ("AA" size x 4), 80 mW (with backlit off)
Dimensions	Φ13 x 90(L) mm (sensor part excluding cable)	Power supply	1.5V alkaline batteries ("AA" size x 4), 80 mW (with backlit off)	Functions	16 Types of internal functions
•Compatible with coating thickness tester L-500 •Eddy current probe (for non-magnetic metals) •Stores up to 50 applications		•Mid-class model •Electromagnetic and eddy current probes provided			

G.P. Moisture Testers		Grain Moisture Testers		Wood Moisture Testers		Concrete Moisture Testers		Paper Moisture Testers		Other Moisture Testers		Composition Analyzers		Quality Judging Instruments		Whiteness Testers		Coating Thickness Testers		Metal Detectors		Friction Tester		Physical Properties Measuring Instruments	
Dual-Type Coating Thickness Tester LZ-990 "ESCAL"		Specifications	Coating Thickness Testers																					Physical Properties Measuring Instruments	
•Reasonably priced and small sensor integrated •Features automatic basis material judgement •Measurement range of 0 - 2000 µm		Mea. method Applications Mea. range Accuracy Resolution Display format Data memory App. memory Power source Functions External output Dim. & weight Accessories Options	Uses both electromagnetic induction and eddy-current methods (with automatic selection function) Non-magnetic coating on ferrous metal substrate and insulating coating on non-ferrous metal substrate 0-2000µm or 0-80mils $<50\mu m \pm 1\mu m, \geq 50\mu m \text{ to } <1000\mu m \pm 2\%, \geq 1000\mu m \text{ to } <2000\mu m \pm 3\%$ $<100\mu m, 0.1\mu m; \geq 100\mu m, 1\mu m$ Digital (backlit LCD, smallest displayed unit 0.1 µm) Approx. 1000 points 8 Types of electromagnetic or eddy current methods, total 16 Cal. curves 2X 1.5V Batteries ("AAA" size Alkaline), 40 mW (backlit OFF) Lot classification, Auto Power ON/OFF, Clock, Upper and lower limits, Statistical calculations, etc, total 15 functions Can be output to PC (USB) or printer (RS-232C) 82(W) x 99.5(D) x 32(H) mm, approx. 0.16kg Zero plate holder (Ferrous metal / Aluminum), Cal. plates (50, 100, 1000 µm), Carrying pouch, 2x 1.5V Batteries ("AAA" size Alkaline), WristStrap Cal. plates (thicknesses other than those available as standard accessories), Measuring stand LW-990(P.28), Printer VZ-380(P.30) (incl. cable VZC71), USB PC cable, Transparent protective cover, Data Logger Software LDL-01																						
Metal Detector EB-610		Specifications	Metal Detectors																					Physical Properties Measuring Instruments	
•Detects metals and sounds alarm buzzer •Detections diameter 22 mm coins at a distance of 70 mm		Detection Method Warning Method Power Source Dim. & weight	Pulse induction Buzzer 9V battery (006P) 115(W) x 170(H)mm, 0.28kg																						
<i>The detection power of this unit depends on the size and position of the piece of metal. For inquiries regarding details, please contact us.</i>																									
Harvest Monitor OT-300		Specifications	Physical Properties Measuring Instruments																					G.P. Moisture Testers	
		Mea. method Applications Mea. range Display format Power source Dim. & weight	Thermostat temperature detection Accumulated field temperature A fixed area of a radius of 2km (depending on conditions) Digital(LCD) 9V (Alkaline battery) Main unit: 60(W) x 45(D) x 105(H)mm, 0.15kg Support post: 30 x 30 x 1300(L)mm x 2 Sunshade hood: 200(W) x 200(D) x 250(H)mm																						
Muse TYPE : 37i		Specifications	Friction Tester																					Physical Properties Measuring Instruments	
		Mea. range Resolution Detector Indicator Power source Dimensions Weight	Coefficient of static friction : 0.000-1.250 (Refer to Section 9-4) 0.001 VCM photosensor LED 7 segments Batteries 4pcs. "AA" size Alkaline 140(W) x 56(D) x 140(H) mm Net 0.8kg / Shipment 2.0kg																						
Muse TYPE : 94i-II		Specifications	Physical Properties Measuring Instruments																					G.P. Moisture Testers	
		Mea. range Resolution Detector Indicator Power source Dimensions Weight	Static friction coefficient 0.000-1.600 0.001 VCM photosensor 7 Segment Red Color LED 4 Digits Batteries 4pcs. "AA" size Alkaline 188 (W) x 62 (D) x 64 (H) mm Net 0.6kg / Shipment 2.0kg																						

G.P. Moisture Testers		Measurement Auxiliary Instruments		Measurement Auxiliary Instruments		G.P. Moisture Testers																																																	
Windshield with Deodorizer FW-100																																																							
Controller KJT-CNT2  <ul style="list-style-type: none"> To be used by connecting with an in-line NIR moisture tester and analyzer Monitors numerical values in locations remote from the main unit 		Specifications <table border="1"> <tr><td>Number of Analytical curves</td><td>Max 99</td></tr> <tr><td>Time constant</td><td>0 - 99.9(0.1sec./step)</td></tr> <tr><td>Display refresh cycle</td><td>0.5 seconds</td></tr> <tr><td>Analog current output</td><td>DC4 - 20mA</td></tr> <tr><td>External comm.</td><td>RS-485, RS-232C / USB / LAN(Option)</td></tr> <tr><td>Failure output</td><td>Contact point output</td></tr> <tr><td>Alarm output</td><td>Complies with upper/lower limit setting values</td></tr> <tr><td>Ambient cond.</td><td>0-40°C, 0-95%RH (no condensation)</td></tr> <tr><td>Displays</td><td>Red color 7 segment LED, LCD display</td></tr> <tr><td>Power source</td><td>AC 100V-220V±10% (50/60Hz), 20VA</td></tr> <tr><td>Dimensions</td><td>270(W) x 258(D) x 196-246(H)mm</td></tr> <tr><td>Weight</td><td>7Kg</td></tr> <tr><td>Option</td><td>Interface board</td></tr> </table>		Number of Analytical curves	Max 99	Time constant	0 - 99.9(0.1sec./step)	Display refresh cycle	0.5 seconds	Analog current output	DC4 - 20mA	External comm.	RS-485, RS-232C / USB / LAN(Option)	Failure output	Contact point output	Alarm output	Complies with upper/lower limit setting values	Ambient cond.	0-40°C, 0-95%RH (no condensation)	Displays	Red color 7 segment LED, LCD display	Power source	AC 100V-220V±10% (50/60Hz), 20VA	Dimensions	270(W) x 258(D) x 196-246(H)mm	Weight	7Kg	Option	Interface board	Specifications <table border="1"> <tr><td>Sample weight</td><td>Brown rice: approximately 10 g Barley: approximately 10 g</td></tr> <tr><td>Time for polishing</td><td>Brown rice: 30 to 40 seconds Barley: 180 to 240 seconds The time is only a guideline. It is sample/moisture dependent</td></tr> <tr><td>Dependent.</td><td>Brown rice : 30 sec, Barley : 1 min.</td></tr> <tr><td>Power source</td><td>100 V AC to 240 V AC (50/60 Hz)</td></tr> <tr><td>Dim. and weight</td><td>95(W) x 130(D) x 160(H) mm, Net 2.0kg / Shipment 4.0kg</td></tr> <tr><td>Accessories</td><td>Pallet, Brush, Paint brush, Spoon, AC adapter, Accessory case</td></tr> <tr><td>Options</td><td>Pearlest Timer TZ-910, Parts for polishing barley and rice for sake</td></tr> </table>		Sample weight	Brown rice: approximately 10 g Barley: approximately 10 g	Time for polishing	Brown rice: 30 to 40 seconds Barley: 180 to 240 seconds The time is only a guideline. It is sample/moisture dependent	Dependent.	Brown rice : 30 sec, Barley : 1 min.	Power source	100 V AC to 240 V AC (50/60 Hz)	Dim. and weight	95(W) x 130(D) x 160(H) mm, Net 2.0kg / Shipment 4.0kg	Accessories	Pallet, Brush, Paint brush, Spoon, AC adapter, Accessory case	Options	Pearlest Timer TZ-910, Parts for polishing barley and rice for sake	Specifications <table border="1"> <tr><td>Sample weight</td><td>5g</td></tr> <tr><td>Grain size</td><td>20 - 30 meshes (rice)</td></tr> <tr><td>Dimensions</td><td>80(W) x 70(D) x 180(H) mm</td></tr> <tr><td>Weight</td><td>Net 1.2kg / Shipment 3.0kg</td></tr> </table>		Sample weight	5g	Grain size	20 - 30 meshes (rice)	Dimensions	80(W) x 70(D) x 180(H) mm	Weight	Net 1.2kg / Shipment 3.0kg
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G.P. Moisture Testers	Grain Moisture Testers	Wood Moisture Testers	Concrete Moisture Testers	Paper Moisture Testers	Other Moisture Testers	Composition Analyzers	Quality Judging Instruments	Whiteness Testers	Coating Thickness Testers	Metal Detector	Printer
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Automatic Rice Husker TR-260



- Makes unpolished rice sample of 20g from rough rice in approx. 60 seconds
- Separates rough and unpolished rice and stores them in separate cases

Measurement Auxiliary Instruments

Specifications

Capacity	1000 Pcs whole grain (approx.20g) / mm
Safety system	Automatically cutoff when overloaded
Moisture range	12 - 18%
Power source	AC 100-240 V (50/60Hz)
Dimensions	205(W) x 130(D) x 130(H) mm
Weight	1.8kg

Fresh Concrete Shaker TZ-610



- Sifter for HI-300, HI-330
- Quick wet screening
- For generating uniform samples without individual user differences

Specifications

Shaking method	Vibrator style
Applications	Fresh concrete
Time required	Approx. 5 min (with three cases of test samples for the fresh concrete and sand moisture tester)
Ambient temp.	0-40 °C
Power source	Custom-ordered 18.0V 4.0Ah lithium-ion battery
Dim. & Weight	360(W) x 454(D) x 620(H) mm, Approx.16.0kg.
Accessories	Mixer (#4.75 mm), Spatula, Sample reception bat, Rechargeable batteries x2, Recharger

Printer VZ-380



- Thermal printer connectable with many products
- Optional battery pack is available

Measurement Auxiliary Instruments

Printer VZ-390



- Thermal printer connectable with many products
- Portable with built-in battery

Specifications

Printing method	Thermal dot
Paper width	58mm
Ambient cond.	0 - 35°C
Power source	AC100V-240V, 50/60Hz OR 7.4V Li-ion battery
Dim. & Weight	83(W) x 130(D) x 45(H)mm, Approx.0.3kg (including battery)
Compatible devices	HI-300/330,PM-650,MT-900,HK-300,HB-300,HX-410,HX-500

Printer VZ-800



- Compact thermal printer
- High-speed printing with thermosensitive line dots

Specifications

Printing method	Thermal dot
Paper width	58mm
Ambient cond.	0 - 50°C, 35 - 85% RH (no condensing)
Power source	AC100V / 120V / 230V
Dim. & Weight	89.5(W) x 175(D) x 113(H)mm, Approx.0.5kg (printer only)
Compatible devices	KB-230, KB-270, AN-920

Printer VZ-810



- Compact thermal printer
- High-speed printing with thermosensitive line dots

Specifications

Printing method	Thermal dot
Paper width	58mm
Ambient cond.	5 - 45°C, 10 - 85% RH (no condensing)
Power source	AC100-240V, 50/60Hz
Dim. & Weight	106(W) x 170(D) x 116.5(H)mm, Approx.0.4kg (printer only)
Compatible devices	NIR Rice Composition Analyzer AN-820

Printer

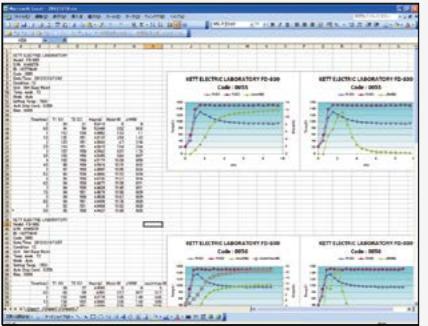
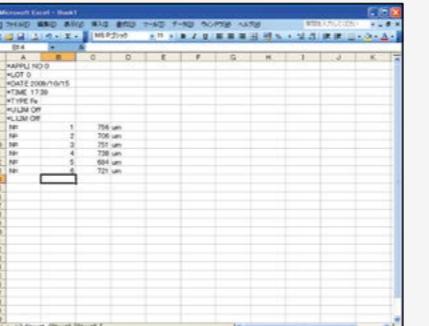
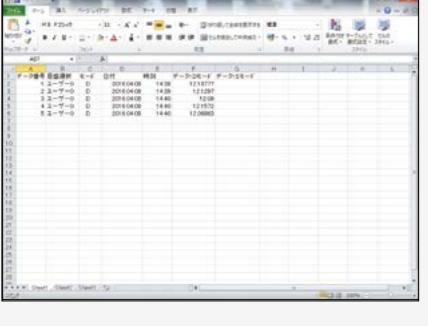
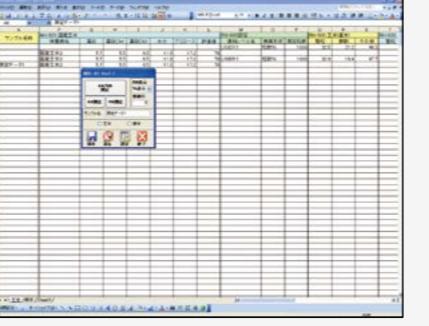
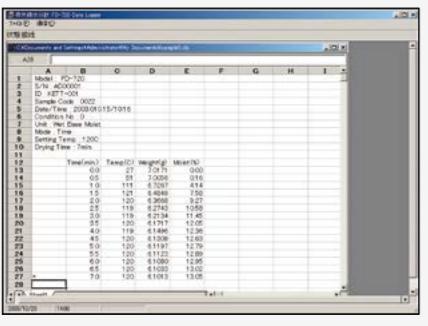
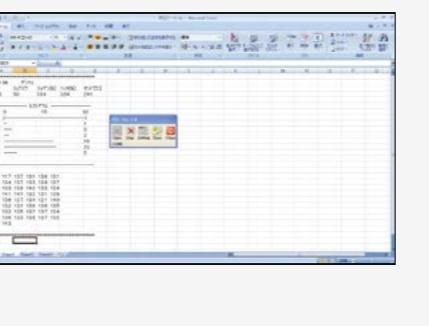
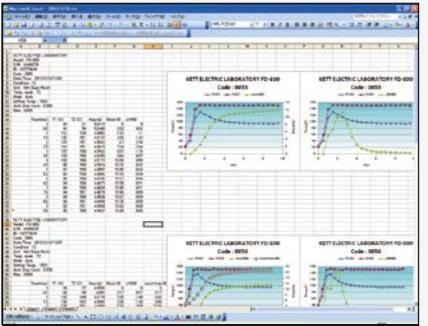
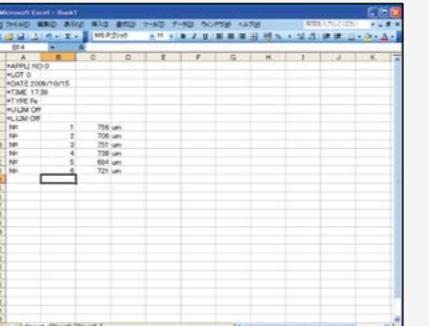
G.P. Moisture Testers	Grain Moisture Testers	Wood Moisture Testers	Concrete Moisture Testers	Paper Moisture Testers	Other Moisture Testers	Composition Analyzers	Quality Judging Instruments	Whiteness Testers	Coating Thickness Testers	Metal Detector	Printer
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Printer

Quality Judging Instruments	Whiteness Testers	Coating Thickness Testers	Metal Detector	Printer
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Printer

Physical Properties Instruments	Mea. Auxiliary Instruments	Printer	Software
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G.P. Moisture Testers		Grain Moisture Testers		Wood Moisture Testers		Concrete Moisture Testers		Paper Moisture Testers		Other Moisture Testers		Composition Analyzers		Quality Judging Instruments		Whiteness Testers		Coating Thickness Testers		Metal Detector		Physical Properties Instruments		Mea. Auxiliary Instruments		Printer		Software	
Data Logger Software FDL-02	Software	Data Logger Software HDL-01 / HDL-02 / HDL-03	Software	Data Logger Software KDL-01	Software	Data Logger Software PDL-01	Software																						
 <ul style="list-style-type: none"> • Data transfer software for FD series • Automatically pastes measurement data into Excel • Can manage measurement data 	 <ul style="list-style-type: none"> • Data transfer software for coating thickness tester LZ-990, L-373 and 370 series • Can manage measurement data 	 <ul style="list-style-type: none"> • Automatically pastes measurement data into Excel • Can manage measurement data 	 <ul style="list-style-type: none"> • Data transfer software for rice analyzer • Automatically pastes measurement data into Excel • Can manage measurement data 	 <ul style="list-style-type: none"> • Data transfer software • Automatically pastes measurement data into Excel • Can manage measurement data 	 <ul style="list-style-type: none"> • Data transfer software for PQ-520 • Automatically pastes measurement data into Excel • Can manage measurement data 	 <p>Specifications</p> <table border="1"> <tr> <td>Compatible devices</td> <td>Infrared Moisture Analyzers FD-800 / FD-720 / FD-660</td> </tr> <tr> <td>OS</td> <td>Windows 7(32/64bit) / 8(32/64bit) / 8.1(32/64bit) / 10(32/64bit) / 11 (64bit)</td> </tr> <tr> <td>App. software</td> <td>Microsoft Excel 2003 / 2010 / 2013</td> </tr> </table>	Compatible devices	Infrared Moisture Analyzers FD-800 / FD-720 / FD-660	OS	Windows 7(32/64bit) / 8(32/64bit) / 8.1(32/64bit) / 10(32/64bit) / 11 (64bit)	App. software	Microsoft Excel 2003 / 2010 / 2013	 <p>Specifications</p> <table border="1"> <tr> <td>Compatible devices</td> <td>LDL-01: Coating Thickness Tester LZ-990 LDL-02: Coating Thickness Testers LE-370 / LH-370 / LZ-370 LDL-03: Coating Thickness Testers LE-373 / LH-373 / LZ-373</td> </tr> <tr> <td>OS</td> <td>Windows 7(32/64bit) / 8(32/64bit) / 8.1(32/64bit) / 10(32/64bit)</td> </tr> <tr> <td>App. software</td> <td>Microsoft Excel 2003 / 2010 / 2013 / 2016(only LDL-01)</td> </tr> </table>	Compatible devices	LDL-01: Coating Thickness Tester LZ-990 LDL-02: Coating Thickness Testers LE-370 / LH-370 / LZ-370 LDL-03: Coating Thickness Testers LE-373 / LH-373 / LZ-373	OS	Windows 7(32/64bit) / 8(32/64bit) / 8.1(32/64bit) / 10(32/64bit)	App. software	Microsoft Excel 2003 / 2010 / 2013 / 2016(only LDL-01)										
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🌐 <https://www.kett.co.jp/english/contacts/>

Requests

- For enquiries regarding this product, please contact us at the address above.

- To improve the product, specifications and the external appearance may be changed without notice. In addition, please note that due to printing, the product's color may appear different from the actual article.

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