

Metrix+™

ELECTRICAL AND ELECTRONIC TEST AND
MEASURING INSTRUMENTS

PRODUCT CATALOG

DECEMBER 2019



INFRARED THERMOMETERS

HSN: 9025



FH 1

Human Body IRT

30 ~ 45 °C

5 : 1 cm

0.95



MT 2-C

Color display

-50 ~ 380 °C

12 : 1

0.95



MT 4xL

Economic\$

-32 ~ 550 °C

12 : 1

0.95



MT 4A

Mid-range#

-50 ~ 600 °C

12 : 1

Adjustable 0.1 ~ 1



MT 4A+

Mid-range#

-50 ~ 750 °C

12 : 1

Adjustable 0.1 ~ 1



MT 12A

Wide range#

Temperature

-18 ~ 1150 °C

D:S Ratio

50 : 1

Emissivity

Adjustable 0.1 ~ 1



MT 16

Wide range#

-18 ~ 1650 °C

50 : 1

Adjustable 0.1 ~ 1



MT 18

High temperature#

200 ~ 1850 °C

80 : 1

Adjustable 0.1 ~ 1



MT 22

High temperature#

200 - 2500 °C

80 : 1

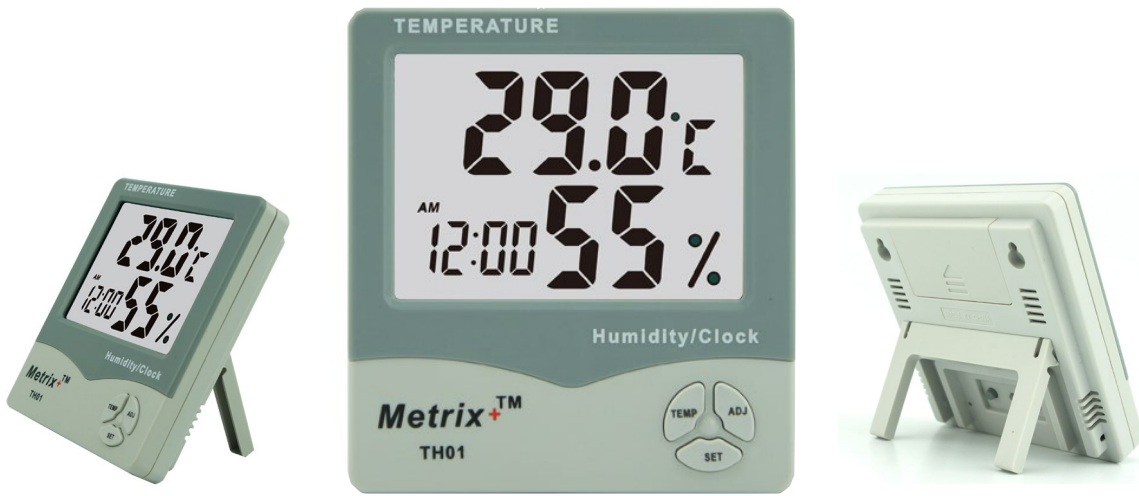
Adjustable 0.1 ~ 1

- Gift box packing and hard carry case. \$ - Gift box packing with pouch.

The device is useful for measuring temperature under circumstances where thermocouples or other probe type sensors cannot be used. Its major usage includes in the heating and air conditioning systems, food safety, agriculture, electrical systems and most other industries.

HSN: 9025

TEMPERATURE & HUMIDITY METERS



TH 01

Indoor Thermo-Hygro Meter, which shows the surrounding temperature and humidity, time, date and has a sleek table-top design.



HT 9 Wet-bulb temperature
HT 9A Dew point temperature pick-up

Temperature	-10 ~ 60 °C	-30 ~ 80 °C
Humidity	10 ~ 95%	0 ~ 100%
Wet-bulb Temp.	-10 ~ 60 °C	-
Dew point Temp.	-	•
Display	Backlit LCD	Dual display LCD
PC interface	-	•
Features	Data storage, data hold, auto power off, low battery indication	

NEW



DT 305-S

Digital thermometer with K-type thermocouple

- Data storage
- High precision with 19999 counts
- Standard probe: -50 ~ 250°C
- Alarm set
- °C / °F convertible

DIGITAL CLAMP METERS

HSN: 9030

ACA CLAMPS



125A
Economic



125A+
Backlit LCD



1250A
1000A basic



2250T
1000A higher

AC A	600A	600A	1000A	1000A True RMS
Count	1999	1999	1999	3999
Additional measurements	AC/DC V, Ω	AC/DC V, Ω	AC/DC V, Ω	AC/DC V, Ω , F, Hz, %, $^{\circ}$ C
Jaw \varnothing	30mm	28mm	52mm	52mm

AC/DC A CLAMPS



725A+
Versatile



36TRMS
Quality



2003
2000A basic



4250T
1000A higher

AC /DC A	600A True RMS	400A True RMS	2000A	1000A True RMS
Count	5999	4000	1999	3999
Additional measurements	AC/DC V, Ω , F, Hz, %, $^{\circ}$ C	AC/DC V, Ω , F, Hz, %	AC/DC V, Ω	AC/DC V, Ω , F, Hz, %, $^{\circ}$ C
Jaw \varnothing	28mm	27mm	52mm	52mm

Ω - Resistance, F - Capacitance, Hz - Frequency, % - Duty, $^{\circ}$ C - Temperature
All models have diode, continuity, data hold and auto-power off

DIGITAL MULTIMETERS

HSN: 9030



31

Battery test



31C

Temperature



NEW

603+

IR Test



NEW

603A+

IR Test & Temperature

AC/DC V	600V	600V	1000 V DC; 750V AC	1000 V DC; 750V AC
AC/DC A	10A DC only	10A DC only	10A	10A
Additional measurements	Ω , battery test	Ω , $^{\circ}\text{C}$	Ω , F, Hz, hFe, IR test, live wire detection	Ω , F, Hz, hFe, $^{\circ}\text{C}$, IR test, live wire detection
Others	Backlit LCD	Backlit LCD	Data hold	Data hold

NEW



171TRMS+

5999 count True RMS

- 20A AC/DC
- AC/DC V, Ω , F, Hz, %, $^{\circ}\text{C}$
- NCV
- Backlight and torch



451

LCR Multimeter

- Panel calibrate
- DC/AC V, DC/AC A, Ω , F, H, Hz, hFe
- Backlit LCD



DM 620

50000 count Data logger

- Auto range True RMS
- Trend plot and graph
- AC/DC V, AC/DC A, Ω , F, Hz, duty, $^{\circ}\text{C}$
- Maximum features



HC 260TR

Analog Multimeter

- AC/DC V
- AC/DC A

Ω - Resistance, F - Capacitance, H - Inductance, Hz - Frequency, % - Duty, $^{\circ}\text{C}$ - Temperature
All models have diode and continuity

DIGITAL INSULATION TESTERS

HSN: 9030



DIT 918
Economic



DIT 954
Mid-range

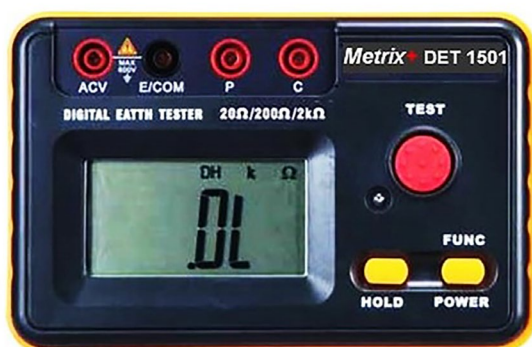


DIT 3125A(Eco)
Versatile

Output Voltage	100/250/500/1000/2500V	1000/2500/5000V	500/1000/2500/5000V
Test range(Ω)	0 ~ 50G Ω	10M Ω ~ 200G Ω	0 ~ 1000G Ω
Test range(V)	30 ~ 600V AC/DC	700V AC	30~600V AC/DC
Others	auto discharge, backlit LCD, live circuit warning	auto discharge, backlit LCD, high voltage indication	Auto discharge, backlit LCD, live circuit warning, Timer measurement, PI, power via DC adapter

DIGITAL EARTH RESISTANCE TESTERS

HSN: 9030



DET 1501
Economic



DET 1503
Versatile

Test range(Ω)	0 ~ 2000 Ω	0 ~ 20 / 200 / 2000 Ω
Earth Voltage	600V	0 ~ 200V
Others	Data hold, low battery indication	Backlit LCD, timer measurement, data hold, auto power off

LASER DISTANCE METERS

HSN: 9031

The new introduced DM series are a versatile range of laser distance meters from 40 to 100m range. They can be used to calculate distance, area, volume, pythagorean distance in different measurement units. The features are :

- Bi-axis spirit levels
- Clear backlit LCD display
- Data storage and recall
- Measurement in m, ft, inch
- Silent operation
- Pocket type



DM 40
0.05 ~ 40m



DM 60
0.05 ~ 60m



DM 100
0.05 ~ 100m

DIGITAL STROBOSCOPES

HSN: 9029

Stroboscopes are used to provide image of single, two or multiple stillness for the vibrating object, rapidly rolling or a periodic motion object and can also observe movement tracks. Machine parts and vibrating string are common examples. The features are :

- Automatic stop flashing to increase tube time
- Internal/external triggering and x2 / /2 buttons for fast adjustment
- Automatic tracking function of the pattern



DT 2239
50 ~ 12,000 FPM



DT 2259A
50 ~ 40,000 FPM

DIGITAL TACHOMETERS

HSN: 9029

Tachometers are used to measure the RPM of a rotating object by either contact method, attaching it to the shaft, or by non-contact method, using laser to calculate the RPM.

The features are :

- Max and min value
- Data hold and backlit LCD (only in DT 2234BL and DT 2235BL)



TM 1000xL

Non-contact type, counter



DT 2234BL

Non-Contact type



DT 2235BL

Contact type



TM 4005

Combine

DIGITAL ANEMOMETERS

HSN: 9031

Anemometers are used for measuring wind speed. They are widely used in fields such as heating, ventilation, air conditioning, environmental protection, energy conservation monitoring, meteorology, etc. The features are :

- Measurement units of m/s, km/hr, ft/min, knots
- Air temperature measurement
- AVM 05 has wind flow measurement in m³/min and ft³/min
- AVM 05 has data storage



AVM 01
0.3 ~ 30m/s



AVM 03
0.4 ~ 30m/s



AVM 05
0.4 ~ 45m/s

DIGITAL SOUND LEVEL METERS

HSN: 9027

Sound Level Meters monitor the sound energy in the surroundings and display in dB value. They are widely used by industries and environmental protection agencies to ensure sound level below required standards and regulations. The features are :

- 1/2 inch electret condenser mic
- Fast and slow time weighing selection
- Max hold function
- SL 4005 has calibration, alarm value and data storage



SL 4001
A & C



SL 4005
A, C & F

DIGITAL LUX METERS

HSN: 9027

Lux meters measure the light intensity and display in lux value. It is widely used in lamp industry, laboratory, environmental agencies, photography and video filming, etc. The features are

- Lux / FC conversion
- Data hold and auto power off
- Max/min value hold(only in LX 1330A+)



LX 101+
2L lux
Economic



LX 1330A+
2L lux
360° rotatable head



LX 1336A
5L lux
High range

COATING THICKNESS GAUGES

HSN: 9017

Coating thickness gauges also known as elcometers and dry film thickness (DFT) meters are used for measuring the thickness of coatings on metals like paint, anodized layer, galvanized layer, lacquer layer, phosphide layer, etc.



Coat Gauge F xL
Economic



Coat Gauge FN xL
Economic



Coat Scope i
High-range

Integrated probe

Type	F	F & NF	F & NF
Measuring range	0 ~ 1500um	0 ~ 1500um F & NF	0 ~ 2000um F & NF
um/mil and backlit LCD	•	•	•
Zero and multi-point calibration	•	•	•
Memory and statistics	-	-	•



Coat Measurer F
Best value



Coat Measurer F+N
Best value



Coat Scope 27
Mid-range



Coat Scope 27 4k/5k
High-range

Separate probe with automatic substrate recognition

Type	F	F & NF	F & NF	F & NF
Measuring range	0 ~ 1250um	0 ~ 1250um F & NF	0 ~ 2000um F & NF	F : 0 ~ 4000um(4k) F : 0 ~ 5000um(5k) NF : 0 ~ 3000um
um/mil and backlit LCD	•	•	•	•
Zero and multi-point calibration	•	•	•	•
Memory and statistics	-	-	•	•

ULTRASONIC THICKNESS GAUGES

HSN: 9017

Ultrasonic Thickness Gauges measure the thickness of a metal using ultrasonic waves. It is widely used in fields such as petroleum, chemicals, metallurgical, aerospace, etc.



UTM 5A+
Menu operation



UTM 5
Mid-range



UTM 9
Mid-range



UTG 27
Sturdy body

Measuring range	1 ~ 300mm	1 ~ 200mm	0.9 ~ 350mm	0.75 ~ 400mm
Resolution	0.1/0.01mm/0.01inch Switchable	0.1mm/0.01mm	0.1mm/0.01mm	0.1/0.01mm/0.01inch Switchable
Memory	•	-	-	-
Selection of probes	-	•	•	•

The measuring ranges are as per tested in 45# Steel

GLOSS METERS

HSN: 9031

Gloss Meter is used to measure the specular reflection (gloss) of a surface. Few industries where it is used are Paints & coatings, additives, inks, plastics, aerospace, automotive manufacture and re-finish, etc.



GLS 09
Single angle



GLS 09M
Multi angle



MICROGLOSS
High quality

Measuring angle	20°	20° / 60° / 85°	20° / 60° / 85°
Measuring range	0 ~ 200 GU	0 ~ 200 GU	20°/60° : 0 ~ 1000 GU 85° : 0 ~ 160 GU One-button simultaneous measurement
Memory	•	•	•
Calibration plate	•	•	•

VIBRATION METERS

HSN: 9031

A vibration meter is used in manufacturing for machine condition monitoring, product testing and quality assurance. A vibration meter also can be used in civil engineering to measure the vibration of structures such as buildings, roads and bridges.



VM 8200P
Economic



VM 8200+
Mid-range



VM 8200mkII+
Sturdy body



VB 8202A
Simultaneous readings

Displacement	0.001 ~ 1.999 mm	0.001 - 2.000 mm	0.001 ~ 4.000 mm	0.001 ~ 4.000 mm
Velocity	0.1 ~ 199.9 mm/s	0.01 - 200.0 mm/s	0.01 ~ 400.0 mm/s	0.01 ~ 400.0 mm/s
Acceleration	0.1 ~ 199.9 m/s ²	0.1 - 200.0 m/s ²	0.1 ~ 400.0 m/s ²	0.1 ~ 400.0 m/s ²
Frequency	-	-	•	-
RPM	-	-	•	-
Data hold	-	•	•	•

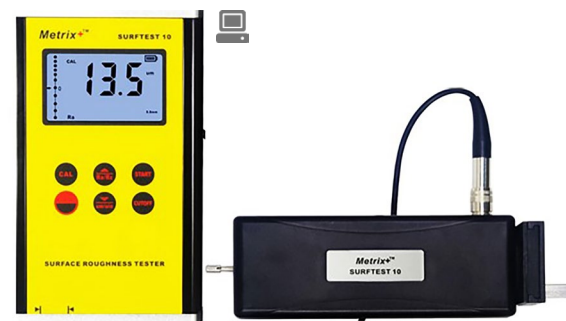
SURFACE ROUGHNESS TESTERS

HSN: 9031

A roughness tester is used to quickly and accurately determine the surface roughness of a material. Few industries include automobile manufacturing and spare parts processing, machinery parts processing, metal processing equipment and accessories, surface engineering treatment, mold casting and precision manufacturing.



MICROSURF 10A
Integrated probe



SURFTTEST 10
External probe

Ra	0.005 ~ 16.00 um	0.05 ~ 10.00 um
Rq	0.005 ~ 16.00 um	-
Rz	0.020 ~ 160.0 um	0.1 ~ 50.0 um
Rt	0.020 ~ 160.0 um	-
Profile digital filter	•	•
Data storage	•	-

HARDNESS TESTERS

HSN: 9024

Rubber Hardness Testers

Shore A scale is used for testing soft Elastomers (rubbers) and other soft polymers like soft vulcanized rubber, natural rubber, nitriles, thermoplastic elastomers, flexible polyacrylics and thermosets, wax, felt and leathers, with hardness values between 20 ~ 90A.

Shore D scale is used for testing hard elastomers and most other polymer materials (thermoplastics, thermosets) like hard rubber, thermoplastic elastomers, harder plastics and rigid thermoplastics, with hardness values greater than 90A.



RHT-A
Scale A



RHT-D
Scale D

Indenter	Hardened steel rod 1.1 mm - 1.4 mm in diameter, with a truncated 35° cone of 0.79 mm diameter	Hardened steel rod 1.1 mm - 1.4 mm in diameter, with a 30° conical point and 0.1 mm radius tip
Measurement range	0 - 100/ 10 ~ 90H	0 - 100/ 10 ~ 90H
Average value and max value data hold	•	•

Leeb Hardness Testers

These employ the rebound method of measuring hardness. Leeb hardness testers can be used to measure the hardness of die cavity of moulds, inspection of bearings, installed machinery, heavy work pieces and other mass produced parts in a production line, failure analysis of pressure vessel, steam generator and other equipment.



Hardmaster
Integrated probe



Hardmaster-P
Versatile



MI-970
Sturdy body

Measurement range	200 ~ 900 HLD	200 ~ 900 HLD	170 ~ 960 HLD
Hardness scales	HL, HB, HRB, HRC, HV, HSD	HL, HB, HRB, HRC, HV, HSD	HL, HB, HRB, HRC, HRA, HV, HS
Standard impact device	D	D	D
Data storage	•	•	•

MOISTURE METERS

HSN: 9031

Moisture meters generally adopt pin type measurement by measuring the electrical conductivity between the two pins to measure the moisture content of the material to be measured.



MM 2
For Wood



MM 2A+
Multi-purpose



MM Wa
Multi-purpose

Measuring range	0 ~ 41%	2 ~ 70%	2 ~ 70%
Varieties or levels	8	4	4
Sensor	Small pins	Small pins	Small + Detachable pins

Moisture levels vary with temperature, humidity, sample composition, etc, hence, it is always recommended to calibrate it against standard testing procedures.



MM W
Multi-purpose



MM S
Multi-purpose



MM S+
Multi-purpose



MM SOIL
For soil

Measuring range	0 ~ 80%	0 ~ 80%	0 ~ 80%	0 ~ 80%
Varieties or levels	10	20	20	10
Sensor	Small + Detachable	Search(non-contact)	Search + probe(contact)	Detachable pins

Grain Moisture Meters



GMM 7002A
Temperature



MM G
Fast



MM-GC
Accurate

Measuring range	5 ~ 30%	6 ~ 30%	0 ~ 50%
Varieties or species	4	36	36
Sensor	Long pins	Long pins	Cup-type spring design

PRECISION LEVELS

HSN: 9015

Made **in** Japan

Sole authorized distributor for India



PRECISION FLAT LEVELS

Model	FLB1-100	FLB1-150	FLB1-200	FLB1-300
Size(mm)	100	150	200	300
Sensitivity(m/mm)	0.02	0.02	0.02	0.02
Weight(kg)	0.9	1.3	1.8	3.3
Dimensions(L*W*H)(mm)	100*42*44	150*42*44	200*42*44	300*50*47



PRECISION SQUARE LEVELS

Model	SLB1-100	SLB1-150	SLB1-200	SLB1-300
Size(mm)	100	150	200	300
Sensitivity(m/mm)	0.02	0.02	0.02	0.02
Weight(kg)	1.6	3.4	5.0	10.0
Dimensions(L*W*H)(mm)	100*100*35	150*150*40	200*200*45	300*300*50

MISCELLANEOUS

PG 08

Micro power monitor or power guard with smart two pin socket capable of calculating power and energy consumption of the appliance connected to it.



- Power and Power factor
- Current, voltage and frequency
- Total usage time
- Total energy consumed
- CO2 generated based on energy consumption
- Large backlit LCD display
- Memory retention
- Alarm set

CD 2

Pen type line tester for non contact detection of AC Voltage.

- Sound indication
- LED indication
- Upto 600VAC



AG 900

Digital angle gauge with horizontal and vertical spirit levels that can be used for angle testing

- Upto 225° angle range
- Rust free anodized aluminium frame
- Backlit LCD
- Data hold

DCM 1501

Digital capacitance meter with a wide measuring range

- Upto 20mF range
- Large display
- Data hold
- Low battery indication



FUTURE



ULTRASONIC FLAW DETECTORS

FUTURE



CAR BATTERY TESTERS

FUTURE



NOISE DOSIMETERS



COL 45
Digital Color Meter

- Six color spaces for measurement and comparison
- 45°/0° measuring geometry
- Statistics display and data storage
- Color difference tolerance can be set to PASS/ WARN/ FAIL
- User calibration function



ULD 30
Ultrasonic Leakage Detector

- Detect the source of ultrasonic emissions generated by gas or air leaks
- 20kHz ~ 100kHz
- LED display panel
- Audible tone as sensitivity indicator
- Audible sound can be heard by internal buzzer or optional headphones

NEW : Newly launched products.
FUTURE : Future planned products. Will be notified on launch.
🖥️ : Optional PC interface for data logging available.

Most of our instruments' catalogs and instruction manuals are available in our website. You can subscribe to our mailing list to stay updated with our latest products, news and offers.

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