

Metrix+™

ELECTRICAL AND ELECTRONIC PORTABLE
TEST AND MEASURING INSTRUMENTS

PRODUCT CATALOG

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ELECTRICAL INSTRUMENTS



NDT (Non-Destructive Testing) INSTRUMENTS



ENVIRONMENTAL TESTERS



SURVEYING EQUIPMENT



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INFRARED THERMOMETERS

HSN: 9025

FH 2
Human Body IRTMT 2-C
Color displayMT 4xL
Economic\$

| | | | |
|-------------|--------------------------|--------------|--------------|
| Temperature | 35 ~ 42.9 °C | -50 ~ 380 °C | -32 ~ 550 °C |
| D:S Ratio | 5 ~ 15cm (Test distance) | 12 : 1 | 12 : 1 |
| Emissivity | 0.95 | 0.95 | 0.95 |

MT 12A
Wide range#MT 16
Wide range#MT 18
High temperature#MT 22
High temperature#

| | | | | |
|-------------|--------------------|--------------------|--------------------|--------------------|
| Temperature | -18 ~ 1150 °C | -18 ~ 1650 °C | 200 ~ 1850 °C | 200 - 2500 °C |
| D:S Ratio | 50 : 1 | 50 : 1 | 80 : 1 | 80 : 1 |
| Emissivity | 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

INFRARED THERMOMETERS

NEW62 Pro
Color displayNEW65 Pro
K-type

| | | |
|-------------|--------------------|--------------------|
| Temperature | -50 ~ 650 °C | -50 ~ 850 °C |
| D:S Ratio | 12 : 1 | 12 : 1 |
| Emissivity | Adjustable 0.1 ~ 1 | Adjustable 0.1 ~ 1 |

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.



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

NEW

ACA CLAMPS

125A+
Backlit LCD225A+
True RMS1250A
1000A basic2250T
1000A higher

| | | | | |
|-------------------------|------------|--------------------------|------------|--------------------------|
| AC A | 600A | 600A True RMS | 1000A | 1000A True RMS |
| Count | 1999 | 3999 | 1999 | 3999 |
| Additional measurements | AC/DC V, Ω | AC/DC V, Ω, F, Hz, %, °C | AC/DC V, Ω | AC/DC V, Ω, F, Hz, %, °C |
| Jaw Ø | 28mm | 28mm | 52mm | 52mm |

AC/DC A CLAMPS

725A+
Versatile2003
2000A basic4250T
1000A higher

| | | | |
|-------------------------|--------------------------|------------|--------------------------|
| AC /DC A | 600A True RMS | 2000A | 1000A True RMS |
| Count | 5999 | 1999 | 3999 |
| Additional measurements | AC/DC V, Ω, F, Hz, %, °C | AC/DC V, Ω | AC/DC V, Ω, F, Hz, %, °C |
| Jaw Ø | 28mm | 52mm | 52mm |

Ω - Resistance, F - Capacitance, Hz - Frequency, % - Duty, °C - Temperature
All models have diode, continuity, data hold and auto-power off

HSN: 9030

DIGITAL MULTIMETERS

31
Battery test31C
Temperature603+
IR Test603A+
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, °C | Ω, F, Hz, hFe, IR test, live wire detection | Ω, F, Hz, hFe, °C, IR test, live wire detection |
| Others | Backlit LCD | Backlit LCD | Data hold | Data hold |

171TRMS+
5999 count True RMS

- 20A AC/DC
- AC/DC V, Ω, F, Hz, %, °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, °C
- Maximum features

HC 260TR
Analog Multimeter

- AC/DC V
- AC/DC A

Ω - Resistance, F - Capacitance, H - Inductance, Hz - Frequency, % - Duty, °C - Temperature
All models have diode and continuity

DIGITAL INSULATION TESTERS

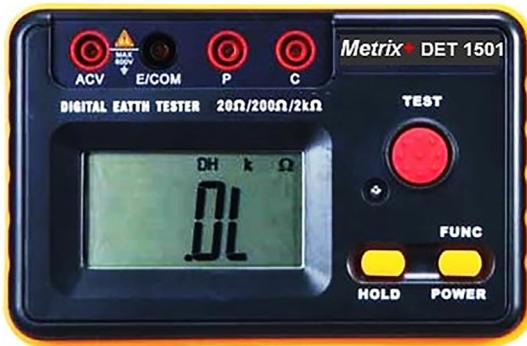
HSN: 9030

DIT 918
EconomicDIT 3125A(Eco)
Versatile

| | | |
|----------------|--|---------------------|
| Output Voltage | 100/250/500/1000/2500V | 500/1000/2500/5000V |
| Test range(Ω) | 0 ~ 50GΩ | 0 ~ 1000GΩ |
| Test range(V) | 30 ~ 600V AC/DC | 30~600V AC/DC |
| Others | Auto discharge, backlit LCD, live circuit warning | |
| | Auto discharge, backlit LCD, live circuit warning, Timer measurement, PI, power via DC adapter | |

DIGITAL EARTH RESISTANCE TESTERS

HSN: 9030

DET 1501
EconomicDET 1503
Versatile

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

HSN: 9031

LASER DISTANCE METERS

The 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 ~ 40mDM 60
0.05 ~ 60mDM 100
0.05 ~ 100m

HSN: 9029

DIGITAL STROBOSCOPES

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 FPMDT 2259A
50 ~ 40,000 FPM

HSN: 9029

DIGITAL TACHOMETERS

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)

DT 2234BL
Non-Contact typeDT 2235BL
Contact typeTM 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 m^3/min and ft^3/min
- AVM 05 has data storage



AVM 01
0.3 ~ 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

HSN: 9017

COATING THICKNESS GAUGES

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.



| Integrated probe | Coat Gauge F xL Economic | Coat Gauge FN xL Economic | Coat Scope i High-range |
|----------------------------------|-----------------------------|------------------------------|----------------------------|
| 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 | - | - | • |

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 | - | - | - | • |

COATING THICKNESS GAUGES

HSN: 9017

Coat Pro series

High quality, smart display, DFT meters with bluetooth capability for smooth data acquisition process.

- Smart color display with trend graph
- On display calibration guide
- Data storage with batch mode
- Statistics calculations
- User friendly menu interface



Coat Gauge Pro
Integrated probe



Coat Scope Pro
Flexible probe

| Type | F & NF | F & NF |
|----------------------------------|------------|------------|
| Measuring range | 0 ~ 2000um | 0 ~ 2000um |
| um/mil | • | • |
| Negative display with menu | • | • |
| Zero and multi-point calibration | • | • |
| Memory and statistics | • | • |

NEW



Wet film comb

Easily measure thickness of wet film coatings like wet paint, enamel layer, adhesive, architectural coating, color coating, varnish, etc

Range : 25 ~ 3000um | 1 ~ 118mils

HSN: 9017

ULTRASONIC THICKNESS GAUGES

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 on 45# Steel

HSN: 9031

GLOSS METERS

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 | • | • | • |

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)s like hard rubber, thermoplastic elastomers, harder plastics and rigid thermoplastics, with hardness values greater than 90A.

RHT-A
Scale ARHT-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.

LHT 1
Integrated probeHardmaster-P
Versatile

| | | |
|------------------------|---------------------------|---------------------------|
| Measurement range | 170 ~ 960 HLD | 170 ~ 960 HLD |
| Hardness scales | HL, HB, HRB, HRC, HV, HSD | HL, HB, HRB, HRC, HV, HSD |
| Standard impact device | D | D |
| Data storage | • | • |

HSN: 9031

VIBRATION METERS

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 | - | • | - | • |

HSN: 9031

SURFACE ROUGHNESS TESTERS

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

SURFTEST 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 | • | - |

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 WoodMM 2A+
For Wood and wallMM 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-purposeMM S/S+
ConcreteNEWMM P
For paper productsMM SOIL
For soil

| | | | | |
|---------------------|--------------------|------------------|-----------------|-----------------|
| Measuring range | 0 ~ 80% | 0 ~ 80% | 0 ~ 50% | 0 ~ 80% |
| Varieties or levels | 10 | 20 | 12 | 10 |
| Sensor | Small + Detachable | Search/ Pin type | Detachable pins | Detachable pins |

Grain Moisture Meters

GMM 7002A
TemperatureMM G
FastMM-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 |

HSN: 9015

PRECISION LEVELS



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 |

PEN TYPE LINE VOLTAGE TESTERS

HSN: 9030

CD 1
EconomicCD 2
Mid-rangeCD 3
Bar display

| | | | |
|------------------------|------------------|------------------|-------------------------------|
| Measurement range | 90 ~ 1000V | 24 ~ 600V AC | 12 ~ 1000V AC |
| Indication | Buzzer and light | Buzzer and light | Buzzer, light and bar display |
| Changeable sensitivity | - | - | • |
| Flashlight | • | - | • |

MISC



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 & Energy consumption
- CO2 emission from usage
- Large backlit LCD display
- Alarm for KW over-usage

DCM 1501

Digital capacitance meter with a wide measuring range

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



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



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.

💻 : Optional PC interface for data logging available.

Most of our instruments' catalogs and instruction manuals are available in our website.
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AUTHORIZED CHANNEL PARTNER

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FUTURE LAUNCHES



THERMAL IMAGER



NOISE DOSIMETER

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ELECTRICAL AND ELECTRONIC PORTABLE
TEST AND MEASURING INSTRUMENTS

