



TESTERS

Pro'sKit® Testers

Maximum display range and accuracy for digital multimeters and digital clamp meters and environmental meters

rdg(reading)

The value on the digital display, readout.

199.9

dgt(digit)

Indicates the least significant digit.

It represents the error used for processing fractions when converting from analog to digital.

Maximum display range

MT-1860/1820: the maximum display range is "5999".

MT-1232: the maximum display range is "3999".

MT-1280/1270/1210: the maximum display range is "1999".

For example of measuring resistance at MT-1232

Resistance	Display	
4000kΩ	4.000MΩ	The range is automatically switched so that the display unit is MΩ or kΩ
4000Ω	4.000kΩ	
40Ω	40.00Ω	The reading is display with three digits.

Accuracy

When ACV measurement using the MT-1270, the maximum display value is 199.9V, minimum display value is 0.01V.

199.9

Example

The accuracy of the AC200 V reading is $\pm(0.8\%rdg+5dgt)$.
when measuring AC100V, the accuracy reading display range is 100.9~99.15.
 $100V \pm (0.8\% + 5dgt)$
 $= 100 + (0.80 + 0.05) - 100 - (0.80 + 0.05)$
 $= 100.9 - 99.15$

SI prefixes

Symbol	Prefixes	Decimal		Units frequently used
		Long Scale	Short Scale	
G	giga	1'X1,000,000,000	1'X10 ⁹	GHz
M	mega	1'X1,000,000	1'X10 ⁶	MΩ, MHz
K	kilo	1'X1,000	1'X10 ³	kΩ, kV, kW, kHz
m	milli	1/1,000	1'X10 ⁻³	mV, mA, mW, mF, mH
μ	micro	1/1,000,000	1'X10 ⁻⁶	μV, μA, μW, μF, μH
n	nano	1/1,000,000,000	1'X10 ⁻⁹	nA, nF, nH
p	pico	1/1,000,000,000,000	1'X10 ⁻¹²	pF, pH

RS
232C

RS232C connector

USB

USB connector



Backlight

MAX
MIN

Maximum/Minimum value

MAX
HOLD

Maximum value hold

HOLD

Data hold

AP
OFF

Auto power off



Low battery

0Ω
ADJ

Zero-ohm adjuster

OUT

Output terminal



V

DC voltage

V

AC voltage

A

DC current

A

AC current

Ω

Resistance

Hz

Frequency

+

Capacitance

°C
°F

Temperature °C/°F measurement

°C

Temperature °C measurement

Hz
Duty

Duty cycle

REL

Relative reference



Continuity buzzer

CONT.
LED

Continuity check



Diode test

hFE

Transistor hEF test

LED

LED test



Hygrometer



Thermometer



Light meter



Sound level meter



Battery check

Most of Pro'sKit® test instruments are approved by CE EN61010-1 CATII/ CATIII test.

CAT. II Primary circuits or equipments connected to low voltage facilities, such as a standard wall outlet.

CAT. III Equipment used for measurement in building facilities, distribution boards, and circuit breakers.

MT-8100 Butt Set



Waterproof



Dustproof

Drop Protection

Rugged

Exterior

Voltage Test

- High impedance monitor
- Line voltage test
- Line Continuity test
- Polarity indication
- Two-way hands-free speakerphone
- Tone and pulse operation
- Speed dialing
- Last number redial
- PBX pause button

- Mute switch
- Electronically adjustable Volume
- Auto power off
- Low battery indication
- Audible ring.
- Extra large steel locking belt clip
- Angled bed of nails and RJ11 plug

IEC/EN 60529
IP54

Mark for products are
complied with IEC/EN
60529 IP54 Dustproof &
Waterproof tests



Line Voltage test



Line Continuity Test

Electronically adjustable
volume

Angled bed of Nails

Electrical

Loop limit

2 KΩ maximum at 48 VDC
(nominal 20 mA minimum loop
current)

DC resistance

Talk Mode

300Ω typical

Monitor impedance

39kΩ nominal at 1 KHz

Rotary dial output

Pulsing rate

10pps±0.8pps

Percent break

61%±2%

Interdigit interval

1000 ms typical

Leakage during Break

>50 KΩ

DTMF output

Tone frequency error

±1.2% maximum

Tone level

-8±2dBm combined (typical)

High versus low tone Difference

4 dB maximum

Memory dialing

Memory capacity

13 memories including M1,
last number redialing

Digit capacity

16 digits per memory

PBX pause duration

4 seconds

Line Voltage Test

5 Phase AC/DC voltage
indication (under 24V, 24~100V, 101
~150V, 151~200V, more than 200V)

Monitor amplifier

9V transistor; provides 25 hours
continuous use, typical

Automatic power shut off(Monitor type)

After 5 min. of no audio signal

Speaker phone levels

Electronically adjustable

Power source

Battery (9V) 6F22 (Not included)

Physical

Measurement (mm/inch)

230 × 82 × 89
(9.1x3.2x3.5)

Weight (g)

635

Water Resistance

Dust protection & Waterproof
tested
to an IEC/EN 60529 IP54 rating

Cord Sets

Angled bed of nails and RJ11 plug

Environmental

Temperature

Operating: 0 to 50°C
Storage: -10 to 60°C

Altitude

To 10,000 feet (3,000M) max

Relative humidity

5 To 95%

Packing

Individual packing

Color box

Replaceable &
Durable Hanger



400-042 Butt Set



Rests easily on shoulder



Polarity LED indications

Large multi-functional panel



Angled bed of Nails



Durable hanger

- Recognized as the new industry standard, the 400-042 butt set provides superior quality at an affordable price.
- With its high impedance monitor for data safe operation, technicians can clip onto a line in Monitor mode without disrupting existing traffic.
- Prokit's unsurpassed protection standards and durability assure the butt set will keep working even in the toughest environments.
- New weatherproofing provides enhanced resistance to severe weather conditions.

Electrical

Loop limit	2 KΩ maximum at 48 VDC (nominal 20 mA minimum loop current)
DC resistance (Talk Mode)	300Ω typical
Monitor impedance	39kΩ nominal at 1 KHz
Rotary dial output	
Pulsing rate	10pps+0.8pps
Percent break	61%±2%
Interdigit interval	1000 ms typical
Leakage during break	>50 KΩ
DTMF output	
Tone frequency error	±1.2% maximum
Tone level	-8±2dBm combined (typical)
High versus low tone Difference	4 dB maximum
Memory dialing	
Memory capacity	12 memories plus last number redialing
Digit capacity	16 digits per memory
PBX pause	4 seconds
Monitor amplifier power source	9V transistor; provides 25 hours continuous use, typical
Speaker levels	Low, medium, high
Automatic power shut off	After 5 min. of no audio signal
Speaker phone levels	Low, medium high
Power source	Shared line and battery power, 9V battery not included

Physical

Length (mm/inch)	260/10.2
Width (mm/inch)	70/2.8
Height (mm/inch)	89/3.5
Weight (g)	560

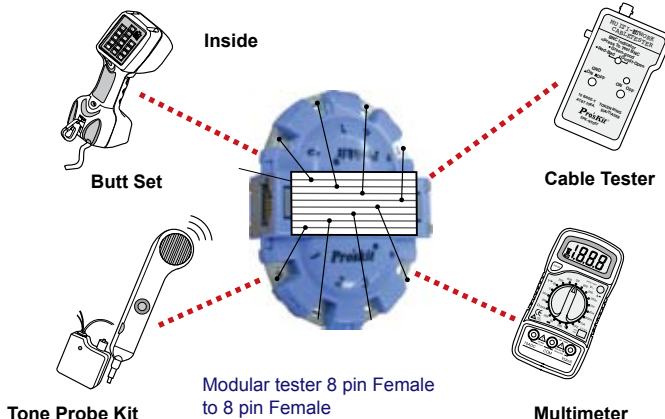
Environmental

Temperature	Operating: 0 to 50°C Storage: -40 to 66°C
Altitude relative humidity	To 10,000 feet 5 to 95%
Packing	
Individual packing	Color box



900-244

In-Line Modular Adapters (4/6/8 Pin 3 In 1)



- The 900-244, In-line Modular Adapter allows in-line testing for any plug/jack combination. It includes two 4-pair jacks plus a modular cord terminated with 4-pair "universal" plug for accessing any standard 6- or 8-position jack.
- Individual conductors are broken out by pin number and correspond to eight separate test pads.
- Test equipment can be securely attached to the test pads using alligator clips.
- For quick reference in the field, USOC, T568A, and T568B wiring charts are printed right onto the body.



6 pin Female to 8 pin Male



4 pin Female to 8 pin Male



8 pin to 8 pin 205mm/8.1"



8 pin to 6 pin 205mm/8.1"



8 pin to 4 pin 205mm/8.1"

Individual packing

Blister card

TESTERS

PRECISION PLIERS
& CUTTERS

ELECTRICAL PLIERS
& CUTTERS

KNIVES, SCISSORS
& SAWS

CRIMPERS

STRIPPERS

PUNCHDOWN
TOOLS

SOLDERING /
ASSEMBLY

SCREWDRIVERS/
BITS

HEX KEY/
WRENCHES

TWEEZERS

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SOLDERING / ASSEMBLY

SCREWDRIVERS/ BITS

HEX KEY/ WRENCHES

TWEEZERS

▶

MT-8002

Telecom Mini Test Set

Hands-free

Tone & Pause

Polarity Test

Last Number Redial

Continuity Test

PBX

Pb

RoHS

COMPLIANT

CONT. LED

- LCD display for dialing number, Caller ID, Clock and other information
- Indicator for determining the NET service and speed
- Headset & neck strap provide convenient hands-free function
- Smart power saving, estimate battery life up to 6 months
- 62 Caller ID memories, each memory up to 12 digits
- 16 dialing number memories, each number up to 12 digits
- Supports 2 dialing modes: tone (DTMF) and pulse
- Up to 16 digits phone number memory for speed dialing
- Pre-dialing and last number redial functions
- PBX pause key, inserting a PBX pause in stored numbers
- Cable continuity & telephone line polarity indicator
- RJ-45 port for easy test lead changing
- Standard alligator clip

Neck strap

Incoming and dialing number display

Accessories

Alligator Clips

Headset

RJ-45 Jack NET service detection

Electrical

Rotary dial output

Pulsing rate

Percent break

Inter digit interval

Leakage break

DTMF output

Tone frequency error

Tone level

High versus low tone difference

Memory Dialing

Memory capacity

Digit capacity

PBX pause

Caller ID

Memory capacity

Digit capacity

Volume levels

LCD brightness level

Extension port

Power source

Physical

Length (mm/inch)

Width (mm/inch)

Heigh (mm/inch)

Packing

Individual packing

10pps + 0.8pps

61%±2%

1000 ms typical

>50KΩ

±1.2% maximum

-8±2dBm combined(typical)

4 dB maximum

16 memories plus last number redialing

16 digits per memory

4 seconds

62 memories

12 digits per memory

Low, high

5

RJ-45 x 1

3 x 1.5V AAA batteries (not included)

156/6.1

55.3/2.2

31.5/1.2

Double blister

▶

400-028

Dual Telephone Line Tester

Pb

Individual packing

Blister card

This tool is for testing the condition of dual telephone line jacks. Multi-color LED indicator light alerts to okay line, reversed line, AC Voltage present and dead line. Fits in shirt pocket.

- Dual telephone line tester that troubleshoots common problem conditions with standard single or dual-line telephone hook-ups.
- Compact unit easily plugs into any single or dual-line telephone jack.
- Tests for three wiring conditions: correct, reversed and AC voltage presence.
- Battery: AA(1.5V) (Not included)

RJ11 JACK

TEST

LINE SWITCH

Red Yellow Green

RJ11 PLUG

▶

400-017

Telecom Tester

Inexpensirve and effective

Simply insert the plug to check outlet

Individual packing

Blister card

▶

902-267

Test Lead (Professional Clip Style)

Professional grade “Bed of Nails” insulation piercing clips within the jaws

Ultra-durable nylon braided jacket

Guarantee ruggedness and flexibility

Non-insulated ring terminals

Connect directly to 400-042 butt set

Length: 60 inch

Materials: Nylon, Copper

Color: Red/Black

Individual packing

Blister card



902-228 All-in-One Toner & Probe Kit

The All-in-one Toner & Probe Kit lets you use the Toner and Probe to validate and troubleshoot wiring on RJ11 /RJ45 cables and connectors, USB, F, BNC, and RCA connectors, and it also supplied with alligator clips to work with. The 902-228 Toner detects telephone and Ethernet service, indicates polarity and active line numbers on voice circuits, and indicates active pair number on Ethernet circuits. The Toner and Probe also provide standard functions such as visual and audible signal strength indication, analog toning/detection, and continuity testing. It is ideal for all maintenance fields of telecommunication, networking, datacom, Audio/Video, cable TV, and all weather cabling, etc.



Features:

- Locates cables quickly and easily
- Locates hidden cables
- Isolates the right cable or pair fast
- Overcome noise and save time
- Tone on live networks safely and effectively
- Verify conductor continuity with cable map
- Identify and troubleshoot cable services

Applications:

- Copper cabling media, including shielded (STP) and UTP cable
- 75 or 50 Ohm coaxial cable
- 10 Base-T or 10/100 Base-T datacom net works
- Two conductor control, security, generic cabling
- POTS telecom service



Toner Specifications

Tone frequency	1KHz
Tone mode	ONE/TWO-note tone
Compatible connectors	RJ-45/RJ-11/USB/F/BNC/RCA/Alligator Clips
Continuity test	<300Ω
Talk battery voltage	6V into 600Ω
Function selection	5-position rotary switch
Cable map indication	8 LED indicators
Voltage protection	100V
Low battery display	6.5V
Battery type	9V (Not included)
Size (LxWxD) mm/inch	140x70x30/5.5x2.8x1.2

Receiver Specifications

Frequency	1KHz
Compatible connectors	RJ-45/RJ-11/USB/F/BNC/RCA
Ear jack	1
Signal status indication	8 LED indicators
Cable map indication	8 LED indicators
Low battery display	6.5V
Battery type	9V (Not included)
Size (LxWxD) mm/inch	250x52x33/9.8x2.0x1.3

Packing

Individual packing	Color box
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Copper cabling detecting, including shielded (STP) and UTP cable



10 Base-T or 10/100 Base-T datacom networks



Locates and isolates cables quickly and easily



Accessories:
1 zipper bag,
2 RJ-45 cables,
2 BNC connectors,
and 2 RCA
connectors



400-011 Tone Generator and Probe Kit

For professionals who need fundamental wire identification tools without the extra cost, the 400-011 basic Tone and Probe Kit is the answer. Use it on de-energized AC wire, telephone/twisted pair wire, all voice and data category rated cable, speaker wire, virtually any cable or wire!

Features:

- Fast, accurate wire identification
- Rugged industrial design
- Sends tone to identify wires
- Three selectable tone outputs
- Two-line polarity indication
- Continuity test
- Adjustable volume control
- Visual signal strength indication
- Powerful speaker for noisy environments
- Recessed telephone test set connectors
- Battery: 9V batteries (2X) not included

Packing:

- Individual packing: Blister card



Packaged in a soft nylon carrying case.



Toner generator



Probe amplifier



TESTERS

PRECISION PLIERS
& CUTTERS

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KNIVES, SCISSORS
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CRIMPERS

STRIPPERS

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SCREWDRIVERS/
BITS

HEX KEY/
WRENCHES

TWEEZERS

▶ MT-7057 Cable Sniffer-Remote



LED Display Area

Push Button

Battery Cover

Cable Sniffer-Remote
Master Unit

Remote Module

Features:

- Simple one push-button operation
- Power supplied by a 9V battery (Not included)
- Palm size design, easy to carry around
- Detects open, short, miswired and cross-connected wire
- Four types of connectors provided to test RJ-45, RJ-11, USB and BNC
- Protects itself against damage from line voltage

Packing:

- Individual packing: Color box



With RJ-45
connectors



With RJ-11
connectors



With USB
connectors



BNC
terminator included

▶ 400-026 Multi-Modular Cable Tester



BNC terminator included

Features:

- Tests RJ45 TIA568A/B (AT&T 258A), 10 Base-T, Token ring, RJ-11/ RJ-12 USOC and Coaxial BNC cable.
- Automatically checks cable for continuity, short, open and crossed wire pairs.
- Coaxial cable port identifies cable conditions including shorts, shield opens and center conductor breaks.
- Main unit and remote allow one person testing.
- Power source: DC 9V Battery (Not included)
- Size(mm/inch): 102x106x28/4.0x4.2x1.1
- Cable not included

Packing:

- Individual packing: Blister card

▶ 400-001 LAN Cable Tester With Remote



- Multi-network cable tester is specified to quickly test by auto scanning the wires continuity, mis-wiring and polarization in your network cables, thin Ethernet (BNC)/10 Base-T (UTP/STP)/356A/TIA-568A/TIA-568B/Token Ring. By using the attached remote terminator, you can easily test the cables before or after the cables installed. It also allows you to test the ground of shielded twisted pairs cables.
- Individual packing: Blister card



For BNC, RJ-45
twisted pair test



With BNC terminator



▶ 400-004 Multi-Modular Cable Tester



- Multi-modular cables tester is applied to quickly test by auto scanning most of modular cable, USOC 4 / USOC6 / USOC 8 terminating with RJ 45, RJ12, and RJ11 modular plug, wires continuity and mis-wiring. It can be also used for testing the cable is crossed pinning or straight through. Moreover, with the remote terminator, it can be further used in remote testing even if the cable has been already installed.
- Individual packing: Blister card

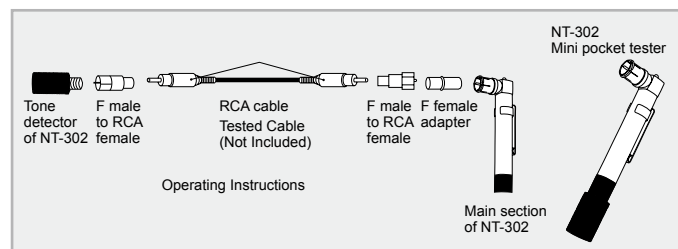




NT-3200 Mini-Pocket Tester Kit With Adaptors



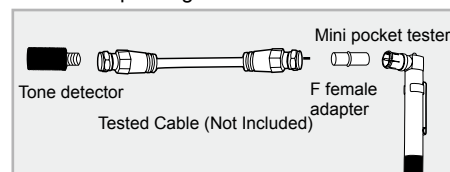
- Improved head design with rugged push-on male F connector
- Easily viewable short circuit indicator
- Loud audio level for noisy environments
- Time-saving push-on female connector on audible toner
- Easily stores in shirt pocket or tool pouch
- Individual packing: Color box



NT-302 Mini-Pocket Tester



- Uses a type 23A~12V battery
- With testing coaxial cable
- Easy to hold, rugged all-brass body
- Designed for cable testing applications
- Easy to store toner
- Right angled Male push-on connector for fast use
- Easy to replace long life battery
- Easy viewable DC short LED
- Individual packing: Blister card



400-007 PC Cable Tester



Features:

- Can test the most used PC data cables, network cables such as printer cable, monitor cable, modem cable, mouse extension cable, game cable, (USB and 1394 cables are for optional advanced model), BNC coax cable, RJ45 cable etc. for open, shorted miswire, continuity and pin configuration.
- LED glow enhanced for printer cable test
- Auto and manual scans can be selected
- DC battery compartment and AC power adapter jack provided
- Handheld, easy access, simple installation and operation

Packing

- Individual packing: Color box



Interface ports	
TX	RX
DB25 female	Centronics 36 female
DB25 male	DB25 Female DB25 male
DB9 female	DB9 female
DB9 male	DB9 male
HDB15 male	HDB15 female
DB15 male	DB15 female
BNC female	BNC female
RJ45 female	RJ45 female
USB (A)	USB (A) socket
USB (B)	USB (B) socket(Optional)
1394 socket	1394 socket (Optional model)
LED display	TX- 25 LEDs RX- 36 LEDs
	Battery low x1
	Ground TX Ground RX
Switch	Wires x 4 (for 4, 9, 15, 25)
	Wire numbers select x 1
	Test x1 (For manual operation)
	Auto/Manual scanning switch x1
	LED scanning speed switch x1
Power	Power on/off switch x1
	DC 9V battery (Not included)
Size (LxWxD) mm/inch	DC9V 150mA 2.5f power jack
	250 x 130 x 35/9.8x5.1x1.38



The Professional Multimeter Series comes with USB or RS232 connector to allow you easy connection to PC for monitor measuring data and recording.

MT-1860 Professional Digital Multimeter



Accessories



USB connector



USB connector to computer, touch keys and auto ranging.

Features:

- 3 5/6 digits 5999 counts.
- 0.5% best accuracy.
- Auto ranging.
- USB connector for PC.
- Dual display with analog bargraph.
- Touch keys
- Function: DC voltage, AC voltage, DC current, AC current, resistance, frequency, capacitance, temperature, duty cycle, relative reference, continuity with buzzer, diode test.
- Extra function: backlight, Max/Min hold, data hold, auto power off, low battery indication.
- Battery: AAA(1.5V)×2.(Not included)
- Size(mm/inch): 185×91×49/7.3×3.6×1.9
- Individual package: Color box.

MT-1820 Digital Multimeter



Accessories



Transistor hFE test



USB connector to computer

Features:

- 3 5/6 digits 5999 counts.
- 0.5% best accuracy.
- Auto/Manual both range.
- USB connector for PC.
- Dual display with analog bargraph.
- Function: DC voltage, AC voltage, DC current, AC current, resistance, frequency, capacitance, temperature, duty cycle, relative reference, continuity with buzzer, diode test, transistor hFE test.
- Extra function: Max/Min hold, data hold, auto power off, low battery indication.
- Battery: AAA(1.5V)×2.(Not included)
- Size(mm/inch): 192×95×48/7.6×3.7×1.9.
- Individual package: Color box.

Model No.	DCV	ACV	DCA	ACA	Resistance	Frequency	Capacitance	Temperature	Special function
MT-1860	600m/6/60/600V ±(0.5%+4d) 1000V ±(1.0%+4d)	6/60/600V ±(0.8%+10d) 750V ±(1.0%+6d)	60m/600mA ±(0.8%+10d) 6/10A ±(1.2%+10d)	60m/600mA ±(1.5%+10d) 6/10A ±(2.5%+15d)	600Ω ±(0.8%+5d) 6k/60k/600k/6MΩ ±(0.8%+4d) 60MΩ ±(1.2%+10d)	10/100/1000/ 10k/100k/1M/ 20MHz ±(0.3%+2d)	40nF ±(5%+30d) 400n/4μ/40μ ±(3.5%+8d) 200μF ±(5.0%+10d)	-20~400°C(0~750°F) ±(1.0%+5d) 400~1000°C(750~1832°F) ±(1.5%+15d)	Touch Keys
MT-1820	600m/6/60/600V ±(0.5%+4d) 1000V ±(1.0%+6d)	6/60/600V ±(0.8%+10d) 750V ±(1.0%+10d)	600μ/6000μA ±(1.0%+10d) 60m/600mA ±(1.0%+10d) 6/10A ±(1.2%+10d)	600μ/6000μA ±(1.5%+10d) 60m/600mA ±(1.5%+10d) 6/10A ±(2.0%+15d)	600Ω ±(0.8%+5d) 6k/60k/600k/6MΩ ±(0.8%+4d) 60MΩ ±(1.2%+10d)	100/1000Hz ±(0.5%+4d) 10k/100kHz ±(0.5%+4d) 1M/20MHz ±(0.5%+4d)	40nF ±(5%+30d) 400n/4μ/40μF ±(3.5%+8d) 200μF ±(5.0%+10d)	-20~400°C (0~750°F) ±(1.0%+5d) 400~1000°C (750~1832°F) ±(1.5%+15d)	

▶ MT-5110 3 1/2 Capacitance Meter

New



- Easy and correct readout.
- High measuring accuracy.
- Measurements are possible even under a strong magnetic field.
- LSI-circuit provides high reliability and durability.
- Input overload protection is provided.
- LCD display for low power consumption and clear readout even in bright ambient light conditions.
- Light-weight and compact construction for easy operation.
- Low battery condition is indicated on the LCD display.



Alligator clips



Test probes

Electrical	
Counter	1999
Digits	3 1/2
Backlight	Y
Auto/Manual ranging	Manual
Capacitance (C)	0.1pF~20000uF
Zero adjustment	Manual (range:±20pF)
Calibrate adjustment	Two internal adjustment, one is panel zero adjustment
Over-input	Display shows "1"
Backlight function	Y
Input overload protections	Y
Sampling time	0~5 second
Operating temp	0°C to 40°C
Operating Humidity	80% Max. R.H.
Automatic power off	N
Low battery indication	Y
Battery	9V x 1 (NEDA1604/6F22 or equivalent model) (not included)
Size (D×W×H)mm/inch	248x70x38/9.8x2.8/1.5
Weight (g)	292g (without battery)
Extra accessories	Test Probes , Alligator clips, operation manual
Individual packaging	Color box

▶ MT-5210 3 1/2 LCR Meter

New



- 3 1/2 digits LCD, Max. reading 1999
- Inductance measurement : 2mH to 20H
- Capacitance measurement 2nF to 1000uF
- Resistance measurement: 200Ω to 20MΩ
- Low battery indication
- Data hold function



Alligator clips



Test probes

Electrical	
Counter	1999
Digits	3 1/2
Auto/Manual ranging	Manual
Inductance (L)	2mH~20H
Capacitance (C)	2nF~1000uF
Resistance (Ω)	200Ω~ 20MΩ
Diode Test	Y
Transistor Test	Y
Continuity buzzer	Y
Data hold	Y
Automatic power off	N
Alarm	Y
Low battery indication	Y
Battery	9V x 1 (NEDA1604/6F22 or equivalent model) (not included)
Size (D×W×H)mm/inch	189x97x35/7.4x3.8x1.4
Weight (g)	362g (without battery)
Extra accessories	Test Probes , Alligator clips, operation manual
Individual packaging	Color box

▶ MT-1630 3 1/2 Pen-Style Meter

New



- Comply with CE safety standard
- Compact in size, light in weight and simple in use
- Penlight illuminates brightly the point to be measured, even in dark place
- Unique protection mechanism for the test probe for safety
- Auto power off function saves the battery life



Electrical	
Counter	1999
Digits	3 1/2
Backlight	N
AC/DC Current	DC : 20mA~200mA ± (1.5% +10d) AC : 20mA~200mA ± (3.0% +10d)
AC/DC Voltage	DC: 200mV ~ 600V ± (0.8% + 5d) AC: 2V~200V ± (1.0% + 3d) AC: 600V ± (1.2% + 3d)
Resistance	200Ω± (1.0% + 5d) 2KΩ~2MΩ ± (1.0 + 3d) 20MΩ± (1.2% + 5d)
Continuity test	Y
Diode test	Y
Auto-Range	Y
Over range indication	Y
Sampling rate	Approximate 3 times per sec.
Low battery indication	Y
Fuse protection	Y
Auto power off	Y
Battery	1.5V x 2 (LR44) (not included)
Size (D×W×H)mm/inch	205x35x30/8.1x1.4x1.2
Weight	90g (without battery)
Operating temperature	0°C~40°C (≤85%R.H)
Storage temperature	-10°C~50°C (≤70%R.H, Remove the battery)
Individual packing	Double blister

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HEX KEY/
WRENCHES

TWEEZERS

MT-1280 Professional Digital Multimeter



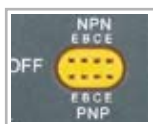
With transistor hFE socket

Features:

- 3 1/2 digits 1999 counts.
- 0.5% best accuracy.
- Functions: DC voltage, AC voltage, DC current, AC current, resistance, capacitance, temperature, continuity with buzzer, diode test, transistor hFE test.
- Extra functions: backlight, auto power off, low battery indication.
- Battery: 6F22(9V). (Not included)
- Size(mm/inch): 175 x 93 x 55/6.9x3.7x2.2
- Individual package: Color box.

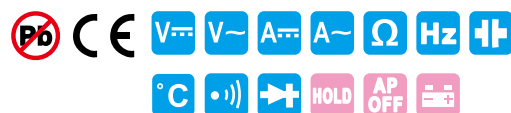


Thermocouple probe



Transistor hFE test

MT-1270 Digital Multimeter



Mechanically prevents mistaken operation

Features:

- 3 1/2 digits 1999 counts.
- 0.5% best accuracy.
- With mechanical prevent mistaken operation.
- Functions: DC voltage, AC voltage, DC current, AC current, resistance, frequency, capacitance, temperature, continuity with buzzer, diode test.
- Extra functions: data hold, auto power off, low battery indication.
- Battery: 6F22(9V). (Not included)
- Size(mm/inch): 175 x 88 x 38/6.9x3.5x1.5
- Individual package: Color box.



Thermocouple probe



Protection mechanism

MT-1232 Digital Multimeter



Features:

- 3 3/4 digits 3999 counts.
- 0.5% best accuracy.
- Auto/Manual both range.
- Functions: DC voltage, AC voltage, DC current, AC current, resistance, frequency, capacitance, temperature, duty cycle, relative reference, continuity with buzzer, diode test.
- Extra functions: data hold, auto power off, low battery indication.
- Battery: AAA(1.5V)×2. (Not included)
- Size(mm/inch): 145 x 74 x 36/5.7x2.9x1.4
- Individual package: Color box.



Thermocouple probe

MT-1210 Digital Multimeter



Features:

- 3 1/2 digits 1999 counts.
- 1.0% best accuracy.
- Functions: DC voltage, AC voltage, DC current, resistance, continuity with buzzer, diode test, transistor hFE test.
- Extra functions: backlight, data hold, low battery indication.
- Battery: 6F22(9V). (Not included)
- Size(mm/inch): 144 x 70 x 32/5.7x2.8x1.3
- Individual package: Double blister.



Transistor hFE test



Back light

Model No.	DCV	ACV	DCA	ACA	Resistance	Frequency	Capacitance	Temperature	Special function
MT-1280	200mV/2/20/200V ±(0.5%+3d) 1000V ±(0.8%+10d)	2/20/200V ±(0.8%+5d) 750V ±(1.2%+10d)	200μ/20mA ±(0.8%+10d) 200mA ±(1.2%+8d) 20A ±(2.0%+5d)	20mA ±(1.0%+5d) 200mA ±(2.0%+5d) 20A ±(3.0%+10d)	200Ω ±(0.8%+5d) 2k/20k/200kΩ ±(0.8%+3d) 20MΩ ±(1.0%+25d)		20nF ±(2.5%+20d) 20μF ±(2.5%+20d) 200μF ±(5.0%+20d)	-20~400°C ±(1.0%+5d) 400~1000°C ±(1.5%+15d)	
MT-1270	200mV/2/20/200V ±(0.5%+3d) 1000V ±(0.8%+10d)	2/20/200V ±(0.8%+5d) 750V ±(1.2%+10d)	2m/20mA ±(0.8%+10d) 200mA ±(1.2%+8d) 10A ±(2.0%+5d)	2mA ±(1.0%+15d) 200mA ±(2.0%+5d) 10A ±(3.0%+10d)	200Ω ±(0.8%+5d) 2k/20k/200k/2MΩ ±(0.8%+3d) 20MΩ ±(1.0%+25d) 200MΩ ±(5%+reading-10) + 30d]	2kHz ±(3.0%+18d) 200kHz ±(3.0%+18d)	20nF ±(2.5%+20d) 20μF ±(2.5%+20d) 200μF ±(5.0%+10d)	-20~400°C ±(1.0%+5d) 400~1000°C ±(1.5%+15d)	Mechanically Prevents Mistaken Operation
MT-1232	400mV/4/40/400V ±(0.5%+4d) 600V ±(1.0%+4d)	4/40/400V ±(0.8%+6d) 600V ±(1.0%+6d)	400μ/4000μA ±(1.0%+10d) 40m/400mA ±(1.0%+10d) 10A ±(1.2%+10d)	400μ/4000μA ±(1.5%+10d) 40m/400mA ±(1.5%+10d) 10A ±(2.5%+15d)	400Ω ±(0.8%+5d) 4k/40k/400k/4MΩ ±(0.8%+4d) 40MΩ ±(1.2%+10d)	1/10/100Hz ±(0.5%+10d) 1k/10k/100kHz ±(0.5%+10d) 1M/10MHz ±(0.5%+10d)	4nF ±(0.5%+90d) 40n/400n/4μ/40μF ±(3.5%+8d) 100μF ±(5.0%+8d)	-20~400°C (0~750°F) ±(1.0%+5d) 400~1000°C (750~1832°F) ±(1.5%+15d)	
MT-1210	200mV ±(1.0%+2d) 2/20/200V ±(1.0%+2d) 500V ±(1.2%+5d)	200V ±(2.5%+10d) 500V ±(2.5%+10d)	200μA ±(2.0%+5d) 2m/20m/200mA ±(2.0%+5d) 10A ±(3.0%+5d)		200Ω ±(1.0%+5d) 2k/20k/200kΩ ±(1.0%+5d) 2MΩ ±(1.5%+5d)				



MT-1610 3 In 1 Network Digital Multimeter



TESTERS



RJ-45 Cable test



RJ-45 / RJ-11 terminal

3 in 1 for testing RJ-45 cable, RJ-11 cable and Digital multimeter function

Features:

- 3 1/2 digits 1999 counts.
- 0.8% best accuracy.
- RJ-45/RJ-11 Cable test
- Functions: DC voltage, AC voltage, DC current, AC current, resistance, continuity with buzzer, diode test, battery check.
- Extra functions: backlight, data hold, low battery indication.
- Battery: 6F22(9V).(Not included)
- Size(mm/inch): 185×85×44/7.3×3.4×1.7
- Accessory: Pouch
- Individual package: Color box.

Model No.	DCV	ACV	DCA	ACA	Resistance	Special function
MT-1610	200m/2/20/200V ±(0.8%+2d) 1000V ±(1.2%+3d)	200mV ±(1.2%+3d) 2/20/200V ±(0.8%+3d) 700V ±(1.2%+5d)	200μ/2m/20mA ±(0.8%+3d) 200mA ±(1.5%+2d) 10A ±(2.0%+5d)	200μA ±(2.0%+3d) 2m/20mA ±(1.0%+3d) 200mA ±(1.8%+3d) 10A ±(3.0%+5d)	200Ω ±(0.8%+3d) 2k/20k/200k/2MΩ ±(0.8%+2d) 20MΩ ±(1.0%+2d) 200MΩ ±(5.0%+10d)	• RJ-45/RJ-11 Cable test for open circuits, shorts, miswires, reversals, and split pairs • Battery test 1.5/3/9V approx.



MT-4017 Light Intensity Meter



Cover and wrist strap included

Specifications:

- Display: 6 digits LCD display.
- Parameters: Lux(lm/m²); foot candle (lm/ft²).
- Range: 0~90000 Lux; 0~8300.0 ftc.
- Resolution: 1 Lux(0~90000 Lux), 0.1 ftc(0~8300.0 ftc).
- Accuracy: ±(3% +30d) to reference.
- Sample rate: 1 time/sec.
- Extra function: data hold, auto power off, low battery indication, Max/Min mode.
- Battery: AAA(1.5V) x 3.(Not included)
- Size(mm/inch): 121 x 60 x 30/4.8x2.4x1.2
- Individual package: Color box with carrying case and cover.



MT-4018 Sound Level Meter



Features:

- Dual display with analog bargraph.
- Auto/Manual range.
- Automatic shutdown / continuous working mode selection.
- Frequency weighting A Type.
- Range display.
- Sound OVER or UNDER display.
- Good circuit designed to save power.
- Small volume, large LCD.
- Low battery indication.

Specifications:

- Display: 4 digits LCD display with analog bargraph.
- Microphone: Electric condenser microphone.
- Response frequency: 31.5Hz~8KHz.
- Frequency weighting: A Type.
- Range: 30~60dB, 50~80dB, 70~100dB, 90~120dB.
- Resolution: 0.1 dB.
- Accuracy: 30~60dB ±3 dB; 60~120dB ±2 dB.
- Time response: Analog bar: 125ms ; Digital :750ms.
- Standard applied: IEC651 Type2, ANSI S1.4 Type 2.
- Battery: AAA(1.5V) x 3.(Not included)
- Size(mm/inch): 156 x 60 x 32/6.1x2.4x1.3
- Individual package: Color box with carrying case.

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SCREWDRIVERS/ BITS

HEX KEY/ WRENCHES

TWEZERS

MT-3266 3 1/2 Hand Held Digital Clamp Meter



New



- Comply with CE safety standards
- Portable and simple one-hand operation
- Display: 3 1/2 digits 1999 counts
- Max. jaw opening: 50mm(2.0")



Electrical	
Counter	1999
Digits	3 1/2
DC(V)	1000 V ± (1%+2d)
AC(V)	750 V ± (1.5%+4d)
AC(A)	200A ±(3.0%+5d) 1000A ±(3.0%+5d)
Resistance(Ω)	200Ω ±(2%+2d) 20KΩ ±(1%+1d)
High Resistance(Ω)	20MΩ ±(2%+2d) 2000MΩ≤500M ±(4%+2d) 2000MΩ>500M ±(5%+2d)
Continuity with beeper	Y
Display hold	Y
Low battery indication	Y
Battery	9V carbon-zinc or alkaline battery (not included)
Size (D×W×H)mm/inch	230 x 70 x 37/9.1x2.8x1.5
Weight (g)	240g (without battery)
Operating Temperature & Humidity	0°C~50°C & <80%RH
Storage Temperature & Humidity	-20°C~60°C & <80% RH
Individual Packing	Double blister

MT-3102 3 1/2 2A Mini Digital Clamp Meter



New



- Comply with CE safety standard
- Portable and simple one-hand operation
- 3 1/2 digits 1999 counts
- With Data Hold, Sleep Mode, Relative Mode and auto power off function
- Max. jaw opening: 30mm(1.2")



Electrical	
Counter	1999
Digits	3 1/2
DC(V)	200mV ± (0.8%+5) 2V/20V/200V ± (0.8%+ 3) 600V ± (1.0%+ 5)
AC(V)	2V/20V/200V± (1.2%+ 5) 600V ± (1.5%+5)
AC(A)	2A ± (4%+20) ≤0.4A ± (3.0%+15) 20A ± (3%+15) ≤4A ± (2.0%+10) 200A ± (2%+5) 400A± (2%+5)
Resistance(Ω)	200Ω ±(1.2%+5) 2KΩ/20KΩ/200KΩ±(1%+3)
High Resistance(Ω)	2MΩ ±(1.2%+5) 20MΩ ±(1.5%+5)
Temperature °C/°F	-40°C~1000°C -40°C~0°C ±(3%+4) 0°C~400°C ±(1%+3) 400°C~1000°C ±(2%+10) -40°F~32°F ±(3%+8) 32°F~752°F ±(1%+6) 752°F~1832°F ±(2%+18)
Continuity with beeper	Y
Display hold	Y
Low battery indication	Y
EN61010-1 CAT II	Y
Battery	3 x 1.5V AAA batteries (not included)
Size (D×W×H)mm/inch	203 x 68 x 33/8.0x2.7x1.3
Weight (g)	190g (without batteries)
Individual Packing	Double blister

NT-306 Non-Contact Voltage Detector



New



- Built-in white LED illumination light provides convenient work in dark areas
- Detects AC voltage from 90 to 1000 VAC without metallic contact
- Compact size with pocket clip easily fits into pockets or tool pouches
- Red LED and audible alarm if voltage is present
- Entire outer surface is non-conductive for safety, helps avoid high voltage shock
- Powered by two 1.5V AAA batteries (not included)
- CAT IV 1000V Safety rating.
- Applications: Electricians, maintenance staffs, service and safety personnel, and even homeowners
- Individual packing: Blister card



Red LED and audible alarm if voltage is present



Built-in white LED illumination light



Detects AC voltage from 90 to 1000 VAC

Warning:
• Never test voltage more than 1000 VAC
• Test voltage range: 90V~1000 VAC



400-029/400-030

Receptacle Testers**400-029****400-030**

- Tests for correct wiring, open ground, reverse polarity, open hot, open neutral, hot on neutral, hot and ground reversed with open hot and ground fault interruption in 3-wire, 120VAC circuits
- Model 400-030 features proper operation GFI receptacles testing.
- Individual packing: Blister card

Light pattern indicates condition of wiring.

OPEN GROUND Ground contact not connected	HOT/GRD REVERSE Hot and ground contacts interchanged
OPEN NEUTRAL Neutral contact not connected	OPEN NEUTRAL Hot and neutral contacts interchanged
OPEN HOT Hot contact not connected	CORRECT Receptacle is wired correctly

● Red is on
 ● Amber is on
 ○ Light is off

**6HP-9xxx Series Oscilloscope Probe Kit**

- Switchable X1/X10 attenuation with reference switch positions.
- Break-resistant center conductor & wide compensation range.
- Flatter response, sharper leading edges.
- Faster rise time and replaceable cable probe head tip and ground lead.
- Max. input voltage: 600V (DC-peak AC).
- Includes BNC adapter, IC tip, insulating tip & trimming tool.
- Individual packing: Pouch

Switchable series							
Model No.	Attn.	Readout	Input impedance	Band width	Resetime	Max input V	Compensation range
6HP-9060	x1	No	1MΩ 90PF	6MHz	58ns	600VDC	NA
	x10		10MΩ 18PF	60MHz	5.8ns		10-35PF
6HP-9100	x1	No	1MΩ 47PF	6MHz	58ns	600VDC	NA
	x10		10MΩ 16PF	100MHz	3.5ns		10-35PF
6HP-9150	x1	No	1MΩ 47PF	6MHz	58ns	600VDC	NA
	x10		10MΩ 15PF	150MHz	2.3ns		10-35PF
6HP-9250	x1	No	1MΩ 47PF	6MHz	58ns	600VDC	NA
	x10		10MΩ 14PF	250MHz	1.4ns		10-35PF

TESTERS

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WRENCHES

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