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Digital AC/DC Clamp Meters
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Voltage Testers
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DC RESISTANCE TESTER CODE 9651-RM20



- Maximum reading: 220000
- Basic accuracy: 0.05%
- 3.5 inch LCD screen
- Temperature compensation function
- Short-circuit zeroing calibration
- Bad contact detection
- Comparator: pass or fail judge
- Keyboard lock function



temperature probe (included)



test clip (included)



RS232 communication cable (included)

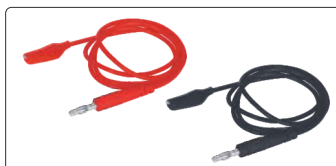
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SPECIFICATION

Function	Range	Resolution	Accuracy ("d" is the least reading)
Slow test	20mΩ	0.001mΩ	±(0.1%+3d)
	200mΩ/2Ω/20Ω/200Ω/ 2kΩ/20kΩ/200kΩ	0.001mΩ/0.00001Ω/0.0001Ω/0.001Ω/ 0.00001kΩ/0.0001kΩ/0.001kΩ	±(0.05%+2d)
	2MΩ	0.0001MΩ	±(0.1%+5d)
Medium test	20mΩ	0.001mΩ	±(0.2%+5d)
	200mΩ/2Ω/20Ω/200Ω/ 2kΩ/20kΩ/200kΩ	0.001mΩ/0.00001Ω/0.0001Ω/0.001Ω/ 0.00001kΩ/0.0001kΩ/0.001kΩ	±(0.1%+3d)
	2MΩ	0.0001MΩ	±(0.2%+5d)
Fast test	20mΩ	0.01mΩ	±(0.8%+5d)
	200mΩ/2Ω/20Ω/200Ω/ 2kΩ/20kΩ/200kΩ	0.01mΩ/0.0001Ω/0.001Ω/0.01Ω/ 0.0001kΩ/0.001kΩ/0.01kΩ	±(0.5%+5d)
	2MΩ	0.001MΩ	±(0.8%+5d)
Range mode	auto range, manual range and nominal range		
Test speed	slow: 3t/s, medium: 18t/s, fast: 60t/s		
Trigger	internal trigger, manual trigger, external trigger		
Interface	handler interface, RS232 interface, RS485 interface, USB interface and temperature compensation interface		
Power supply	AC: 100V~240V, 50Hz/60Hz		
Dimension (L×W×H)	307×264×107mm		
Weight	2.5kg		

STANDARD DELIVERY

Main unit	1 pc
RS232 communication cable	1 pc
Temperature probe	1 pc
Test clip	1 pc



test leads (included)

DC POWER SUPPLY CODE 9911-PS305



SPECIFICATION

Voltage	range	30V
	setting resolution	10mV
	setting accuracy	$\leq 0.1\% + 10\text{mV}$
	readback resolution	10mV
	readback accuracy	$\leq 0.1\% + 10\text{mV}$
	load regulation	$\leq 0.1\% + 5\text{mV}$
	line regulation	$\leq 0.01\% + 5\text{mV}$
	ripple	10mVrms
Current	range	5A
	setting resolution	1mA
	setting accuracy	$\leq 0.2\% + 10\text{mA}$
	readback resolution	1mA
	readback accuracy	$\leq 0.2\% + 10\text{mA}$
	load regulation	$\leq 0.2\% + 3\text{mA}$
	line regulation	$\leq 0.2\% + 3\text{mA}$
	ripple	8mArms
OVP		0~33V
OCP		0~5.5A
Work condition		temperature: 0~40°C, humidity: $\leq 80\% \text{RH}$
Storage condition		temperature: -20~60°C, humidity: $\leq 80\% \text{RH}$
Cool system		fan cool
Power supply		AC 220V $\pm 10\%$, 50Hz/60Hz
Dimension (L×W×H)		230×80×150mm
Weight		1.45kg

- Four-digit LED display
- Output power display
- Output switch control
- 10mV/1mA high accuracy and resolution
- Panel locking function to prevent misoperation
- USB interface for power supply
- OVP/OCP protection
- 3 shortcut keys for presetting

STANDARD DELIVERY

Main unit	1 pc
Test lead	2 pcs

- Auto/manual ranging
- Maximum mode
- Data hold
- NCV detection
- Low battery indication
- Auto power off
- Safety rating: CAT III 600V

STANDARD DELIVERY

Main unit	1 pc
Test lead	1 pc
Clip	2 pcs
Battery (AAA)	2 pcs



clips (included)



test lead (included)

SPECIFICATION

Function	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V/600V	0.1mV/1mV/10mV/0.1V/1V	$\pm(0.7\% + 2)$
AC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	$\pm(0.8\% + 3)$
	600V	1V	$\pm(1.0\% + 3)$
DC Current	20mA/200mA	10 μA /0.1mA	$\pm(1.5\% + 3)$
AC Current	20mA/200mA	10 μA /0.1mA	$\pm(2.0\% + 3)$
Resistance	200 Ω	0.1 Ω	$\pm(1.0\% + 3)$
	2k Ω /20k Ω /200k Ω /2M Ω	1 Ω /10 Ω /0.1k Ω /1k Ω	$\pm(1.0\% + 1)$
	20M Ω	10k Ω	$\pm(1.0\% + 5)$
Logic level test	<1.5V (green LED on); 1.5~3.5V (green & red LED off); >3.5V (red LED on)		
Diode	open circuit voltage 1.5V		
Continuity buzzer	<50 Ω		
Power supply	2×1.5V AAA batteries		

PEN-TYPE DIGITAL MULTIMETER CODE 9241-ML200



DIGITAL MULTIMETER CODE 9216-F520



- 2000 counts digital display
- Auto ranging (except 200mV AC)
- Data hold
- Max hold
- Display with backlight
- Low battery indication
- Auto power off
- Safety rating: CAT III 600V



test leads (included)



temperature probe and
adapter (included)

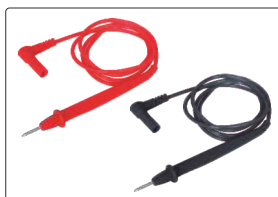
SPECIFICATION

Function	Range	Resolution	Accuracy ("d" is the least reading)
DC Voltage	200mV	0.1mV	$\pm(0.5\%+2d)$
	2V/20V/200V	0.001V/0.01V/0.1V	$\pm(1.0\%+2d)$
	600V	1V	$\pm(1.2\%+2d)$
AC Voltage (50~60Hz)	200mV	0.1mV	$\pm(1.5\%+30d)$
	2V	0.001V	$\pm(1.2\%+3d)$
	20V/200V	0.01V/0.1V	$\pm(1.5\%+3d)$
	600V	1V	$\pm(2.0\%+4d)$
DC Current	200μA	0.1μA	$\pm(1.0\%+3d)$
	2000μA/20mA/200mA	1μA/0.01mA/0.1mA	$\pm(1.5\%+3d)$
	10A	0.01A	$\pm(2.5\%+5d)$
AC Current (50~60Hz)	200μA	0.1μA	$\pm(1.5\%+5d)$
	2000μA/20mA/200mA	1μA/0.01mA/0.1mA	$\pm(1.8\%+5d)$
	10A	0.01A	$\pm(3.0\%+7d)$
Resistance	200Ω	0.1Ω	$\pm(1.2\%+4d)$
	2kΩ	0.001kΩ	$\pm(1.0\%+2d)$
	20kΩ/200kΩ/2MΩ	0.01kΩ/0.1kΩ/0.001MΩ	$\pm(1.2\%+2d)$
	20MΩ	0.01MΩ	$\pm(2.0\%+3d)$
Temperature (type-K)	-50°C to 1000°C	1°C	$\pm(3.0\%+5^{\circ}\text{C})$
	-58°F to 1832°F	1°F	$\pm(3.0\%+8^{\circ}\text{F})$
Diode test	test current: 0.3mA typical	1mV	$\pm(10\%+5d)$
Continuity check	less than 100Ω		
Power supply	9V battery		
Dimension (L×W×H)	150×70×48mm		
Weight	255g		

STANDARD DELIVERY

Main unit	1 pc
Thermocouple adapter	1 pc
Temperature probe	1 pc
9V battery	1 pc
Test lead	2 pcs

- Portable size with protective case
- 1999 counts digital display
- Data hold
- Display with backlight
- Low battery indication
- Auto power off
- Safety rating: CAT II 600V



test leads (included)

MINI DIGITAL MULTIMETER (BASIC TYPE) CODE 9242-ML100A

POPULAR
MODEL



VIDEO



SPECIFICATION

Function	Range	Resolution	Accuracy ("d" is the least reading)
DC Voltage	200.0mV	0.1mV	$\pm(0.7\%+3d)$
	2000mV	1mV	$\pm(0.5\%+2d)$
	20.00V/200.0V/600V	0.01V/0.1V/1V	$\pm(0.7\%+3d)$
AC Voltage (40~400Hz)	200.0V/600V	0.1V/1V	$\pm(1.2\%+3d)$
DC Current	200.0μA/200.0mA	0.1μA/0.1mA	$\pm(1.0\%+2d)$
	10.00A	0.01A	$\pm(1.2\%+5d)$
Resistance	200.0Ω	0.1Ω	$\pm(1.0\%+2d)$
	2000Ω/20.00kΩ/200.0kΩ	1Ω/0.01kΩ/0.1kΩ	$\pm(0.8\%+2d)$
	20.00MΩ	0.01MΩ	$\pm(1.2\%+3d)$
Battery test	1.5V/9V/12V battery check		
Diode test	open circuit voltage: 2.1V DC		
Continuity test	<50Ω		
Power supply	2×1.5V AAA batteries		
Dimension (L×W×H)	134×77×47mm		
Weight	206g		

STANDARD DELIVERY

Main unit	1 pc
Battery (AAA)	2 pcs
Test lead	2 pcs



test leads (included)



VIDEO



SMART DIGITAL MULTIMETER CODE 9247-190

- Automatically identify test modes for AC voltage/DC voltage/resistance/continuity
- NCV detection and judge the strength by light and buzzer
- Self-calibration when power on to ensure accuracy
- LIVE firewire recognition
- Display with backlight
- True RMS measurement
- Data hold
- Low battery indication
- Auto power off
- Safety rating: CAT III 600V

STANDARD DELIVERY

Main unit	1 pc
Test lead	2 pcs
Battery (CR2032)	2 pcs

SPECIFICATION

Function	Range	Resolution	Accuracy
DC Voltage	60mV/600mV/6V/60V/600V	0.01mV/0.1mV/0.001V/0.01V/0.1V	$\pm(0.5\%+3)$
AC Voltage	60mV/600mV/6V/60V/600V	0.01mV/0.1mV/0.001V/0.01V/0.1V	$\pm(1.0\%+3)$
DC Current	6000μA/60mA/600mA	1μA/0.01mA/0.1mA	$\pm(1.2\%+5)$
AC Current	6000μA/60mA/600mA	1μA/0.01mA/0.1mA	$\pm(1.5\%+5)$
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	$\pm(1.0\%+5)$
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	$\pm(1.5\%+3)$
Capacitance	6nF/60nF/600nF/6μF/60μF/600μF	0.001nF/0.01nF/0.1nF/0.001μF/0.01μF/0.1μF	$\pm(4.0\%+5)$
	6mF/60mF	0.001mF/0.01mF	$\pm(5.0\%+5)$
Frequency	10Hz/100Hz/1000Hz/10kHz/100kHz/1000kHz	0.001Hz/0.01Hz/0.1Hz/0.001kHz/0.01kHz/0.1kHz	$\pm(1.0\%+5)$
	10MHz	0.001MHz	$\pm(3.0\%+5)$
Duty cycle	1~99%	0.1%	$\pm(3.0\%+5)$
Diode measurement	open circuit voltage 2.0V		
Continuity measurement	<50Ω		
Power	2×3V CR2032 batteries		
Dimension (L×W×H)	133×68×18mm		
Weight	178g		

DIGITAL MULTIMETER (WITH JACK INDICATOR LIGHT) CODE 9246-180



- Jack indicator light: jacks flash green to indicate the corresponding jacks for test leads
- NCV detection and judge the strength by light and buzzer
- Self-calibration when power on to ensure accuracy
- LIVE firewire recognition
- Double color backlight (orange backlight prompts high voltage or current: the orange backlight automatically lights up when voltage is higher than 80V or the current is higher than 1A)
- Large range capacitance meter 100mF
- True RMS measurement
- Battery test function
- Max/Min mode
- Data hold
- Low battery indication
- Auto power off
- Safety rating: CAT III 1000V, CAT IV 600V



test leads (included)

STANDARD DELIVERY

Main unit	1 pc
Test lead	2 pcs
Battery (AA)	2 pcs

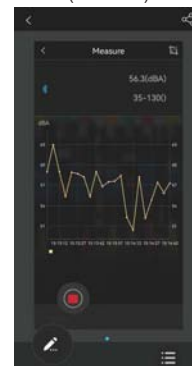
SPECIFICATION

Function	Range	Resolution	Accuracy
DC Voltage	600mV/6V/60V/600V/1000V	0.1mV/0.001V/0.01V/0.1V/1V	±(0.5%+3)
AC Voltage	6V/60V/600V/750V	0.001V/0.01V/0.1V/1V	±(0.8%+5)
DC Current	60μA/60mA/600mA/10A	0.01μA/0.01mA/0.1mA/0.01A	±(1.2%+3)
AC Current	60mA/600mA/10A	0.01mA/0.1mA/0.01A	±(1.5%+3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(1.0%+3)
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	±(1.5%+3)
Capacitance	10nF/100nF/1000nF/10μF/100μF/1000μF	0.001nF/0.01nF/0.1nF/0.001μF/0.01μF/0.1μF	±(4.0%+5)
	10mF/100mF	0.001mF/0.01mF	±(5.0%+5)
Frequency	10Hz/100Hz/1000Hz/10kHz/100kHz/1000kHz	0.001Hz/0.01Hz/0.1Hz/0.001kHz/0.01kHz/0.1kHz	±(1.0%+3)
	10MHz	0.001MHz	±(3.0%+3)
Duty cycle	1~99%	0.1%	±(3.0%+3)
Diode measurement	forward DC current 2.5mA, reverse DC voltage 3.0V		
Continuity measurement	<30Ω		
Power	2x1.5V AA batteries		
Dimension (L×W×H)	188×88×50mm		
Weight	424g		

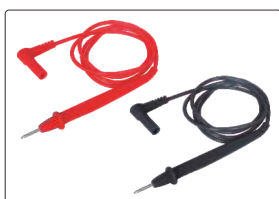
DATA
OUTPUT

VIDEO

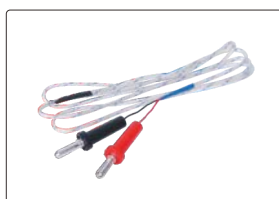
BLUETOOTH DIGITAL MULTIMETER CODE 9219-KV220

data acquisition app
(included)

- Built-in bluetooth
- Mobile app included
- 9999 counts digital display
- True RMS measurement
- Display with backlight
- Relative measurement mode
- Auto/manual ranging
- Auto power off
- Data hold
- NCV detection
- Low battery indication
- Safety rating: CAT III 600V



test leads (included)



temperature probe (included)

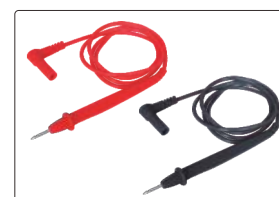
STANDARD DELIVERY

Main unit	1 pc
Test lead	2 pcs
Temperature probe	1 pc
Battery (AAA)	3 pcs

SPECIFICATION

Function	Range		Resolution	Accuracy ("d" is the resolution)
DC Voltage	9.999mV/99.99mV		0.001mV/0.01mV	±(0.7%+8d)
	999.9mV/9.999V/99.99V/999.9V		0.1mV/0.001V/0.01V/0.1V	±(0.5%+3d)
AC Voltage (40~400Hz)	9.999mV/99.99mV		0.001mV/0.01mV	±(1.0%+3d)
	999.9mV/9.999V/99.99V/999.9V		0.1mV/0.001V/0.01V/0.1V	±(0.8%+3d)
DC Current	999.9μA		0.1μA	±(0.8%+3d)
	999.9mA/9.999A		0.1mA/0.001A	±(1.0%+3d)
AC Current (40~400Hz)	999.9μA		0.1μA	±(1.0%+3d)
	999.9mA/9.999A		0.1mA/0.001A	±(1.2%+3d)
Resistance	999.9Ω/9.999kΩ/99.99kΩ/999.9kΩ		0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(0.8%+2d)
	9.999MΩ		0.001MΩ	±(1.5%+3d)
	99.99MΩ		0.01MΩ	±(2.0%+5d)
Capacitance	9.999nF		0.001nF	±(4.0%+10d)
	9.999nF/99.99nF/999.9nF/9.999μF /99.99μF/999.9μF		0.001nF/0.01nF/0.1nF/0.001μF /0.01μF/0.1μF	±(4.0%+5d)
	9.999mF		0.001mF	±(10.0%)
Frequency	99.99Hz~9.999MHz		0.01Hz~0.001MHz	±(0.1%+5d)
Temperature	-40~1000°C	-40~0°C	1°C	±4°C
		>0~100°C	1°C	±(1.0%+5d)
		>100~1000°C	1°C	±(2.0%+5d)
	-40~1832°F	-40~32°F	1°F	±5°F
		>32~212°F	1°F	±(1.5%+5d)
		>212~1832°F	1°F	±(2.5%+5d)
Duty cycle	0.1%~99.9%		0.1%	±(3%+5d)
Diode test	open circuit voltage 3.3V, test current 1.5mA			
Continuity check	<30Ω			
Power supply	3x1.5V AAA batteries			
Dimension (L×W×H)	187×88×56mm			
Weight	400g			

DIGITAL AC/DC CLAMP METER CODE 9315-CF210



test leads (included)

- 4000 counts display
- 28mm jaw opening
- NCV detection with light and sound alarm
- True RMS measurement
- Auto ranging
- REL (zero) function
- Data hold
- Polarity indication
- LCD screen with backlight
- Low battery indication
- Auto power off
- Safety rating: CAT III 300V/CAT II 600V

STANDARD DELIVERY

Main unit	1 pc
Battery (AAA)	2 pcs
Test lead	2 pcs

SPECIFICATION

Function	Range	Resolution	Accuracy ("d" is the least reading)
DC Current	40.00A/400.0A	0.01A/0.1A	$\pm(2.0\%+5d)$
AC Current *	40.00A/400.0A	0.01A/0.1A	$\pm(2.0\%+5d)$
DC Voltage	400.0mV	0.1mV	$\pm(0.7\%+3d)$
	4.000V/40.00V/400.0V/600V	0.001V/0.01V/0.1V/1V	$\pm(0.5\%+2d)$
AC Voltage *	4.000V	0.001V	$\pm(1.0\%+5d)$
	40.00V/400.0V/600V	0.01V/0.1V/1V	$\pm(0.8\%+5d)$
AC Voltage frequency	10Hz~60kHz	0.01Hz~0.01kHz	$\pm(0.5\%+2d)$
Resistance	400.0Ω	0.1Ω	$\pm(1.0\%+2d)$
	4.000kΩ/40.00kΩ/400.0kΩ	0.001kΩ/0.01kΩ/0.1kΩ	$\pm(0.8\%+2d)$
	4MΩ/40MΩ	0.001MΩ/0.01MΩ	$\pm(2.5\%+5d)$
Capacitance	40.00nF/400.0nF/4.000μF/ 40.00μF/400.0μF	0.01nF/0.1nF/0.001μF/ 0.01μF/0.1μF	$\pm(4.0\%+5d)$
	4.000mF/40.00mF	0.001mF/0.01mF	$\pm 10.0\%$
Frequency	10Hz~10MHz	0.01Hz~0.01MHz	$\pm(0.1\%+4d)$
Duty cycle	0.1%~99.0%	0.1%	$\pm(3.0\%+5d)$
Diode test	open circuit voltage: 4V		
Continuity check	<30Ω		
Power supply	2×1.5V AAA batteries		
Dimension (L×W×H)	215×75×37mm		
Weight	235g		

* AC voltage/current frequency response: 45Hz~400Hz, true RMS display

AC PHASE AND VOLTAGE DETECTOR CODE 9723-400

- Non-contact detection of phase sequence, high and low voltage, wire distinction
- Low battery indication
- Auto power off
- Flashlight

SPECIFICATION

Phase sequence detection	screen shows clockwise or counterclockwise
High and low voltage detection	beep: slow~fast backlight: green~red analog bar: low~high
Wire distinction	green backlight indicates neutral wire red backlight indicates live wire
Power supply	2×1.5V AAA batteries
Dimension	157×27×23mm
Weight	32g



DIGITAL VOLTAGE TESTER CODE 9721-250

- Direct AC test (contact): 12-250V
two way display: voltage displays on LCD screen and neon lamp lights up (when voltage>80V)
- Induction AC test (non-contact): 12-250V
to detect power source or recognize the phase line, ground line and break point
- Direct DC test (contact): 6-36V
instant sense and display
- Work without battery
- Tester tip: CRV material

SPECIFICATION

Range	AC: 12-250V; DC: 6-36V
Neon lamp life	30000 times
Dimension	133×21×19mm
Weight	22g



VOLTAGE TESTER CODE 9722-250

- Tester tip: CRV material

SPECIFICATION

Range	AC: 100-250V
Neon lamp life	30000 times
Dimension	145×Ø15mm
Weight	21g

