

## DC POWER SUPPLY CODE 9914-BP506



### SPECIFICATION

Rate output voltage		0~50V
Rate output current		0~6A
Maximum output power		150W
Voltage	setting resolution	10mV
	setting accuracy	≤0.5%+50mV
	readback resolution	10mV
	readback accuracy	≤0.5%+50mV
	load regulation	≤0.05%+5mV
	line regulation	≤0.1%+3mV
	ripple	≤5mVrms
Current	setting resolution	1mA
	setting accuracy	≤0.5%+5mA
	readback resolution	1mA
	readback accuracy	≤0.5%+5mA
	load regulation	≤0.1%+3mA
	line regulation	≤0.1%+3mA
ripple	≤20mArms	
OVP		0~55V
OCP		0~6.5A
Work condition		temperature: 0°C~40°C, humidity: ≤75%RH
Storage condition		temperature: -20°C~50°C, humidity: ≤90%RH
Cool system		fan cool
Power supply		110V/220V±10%, 50Hz/60Hz
Dimension		200×80×155mm
Weight		1.23kg

- Four-digit LED display
- Independent voltage and current control knob
- Output switch control
- 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

## PEN-TYPE DIGITAL MULTIMETER CODE 9241-ML200



- 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



test lead (included)

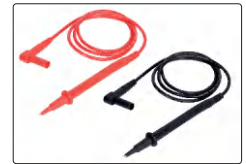


clips (included)

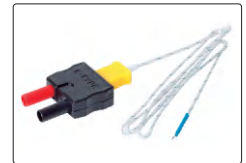
### SPECIFICATION

Function	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V/600V	0.1mV/1mV/10mV/0.1V/1V	±(0.7%+2)
AC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.8%+3)
	600V	1V	±(1.0%+3)
DC Current	20mA/200mA	10µA/0.1mA	±(1.5%+3)
AC Current	20mA/200mA	10µA/0.1mA	±(2.0%+3)
Resistance	200Ω	0.1Ω	±(1.0%+3)
	2kΩ/20kΩ/200kΩ/2MΩ	1Ω/10Ω/0.1kΩ/1kΩ	±(1.0%+1)
	20MΩ	10kΩ	±(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	<50Ω		
Power supply	2×1.5V AAA batteries		





test leads (included)



temperature probe and adapter (included)

- 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

**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	$\pm(1.5\%+3d)$
DC Current	600V	1V	$\pm(2.0\%+4d)$
	200 $\mu$ A	0.1 $\mu$ A	$\pm(1.0\%+3d)$
	2000 $\mu$ A/20mA/200mA	1 $\mu$ A/0.01mA/0.1mA	$\pm(1.5\%+3d)$
AC Current (50~60Hz)	10A	0.01A	$\pm(2.5\%+5d)$
	200 $\mu$ A	0.1 $\mu$ A	$\pm(1.5\%+5d)$
	2000 $\mu$ A/20mA/200mA	1 $\mu$ A/0.01mA/0.1mA	$\pm(1.8\%+5d)$
Resistance	10A	0.01A	$\pm(3.0\%+7d)$
	200 $\Omega$	0.1 $\Omega$	$\pm(1.2\%+4d)$
	2k $\Omega$	0.001k $\Omega$	$\pm(1.0\%+2d)$
	20k $\Omega$ /200k $\Omega$ /2M $\Omega$	0.01k $\Omega$ /0.1k $\Omega$ /0.001M $\Omega$	$\pm(1.2\%+2d)$
Temperature (type-K)	20M $\Omega$	0.01M $\Omega$	$\pm(2.0\%+3d)$
	-50 $^{\circ}$ C to 1000 $^{\circ}$ C	1 $^{\circ}$ C	$\pm(3.0\%+5^{\circ}$ C)
	-58 $^{\circ}$ F to 1832 $^{\circ}$ F	1 $^{\circ}$ F	$\pm(3.0\%+8^{\circ}$ F)
Diode test	test current: 0.3mA typical	1mV	$\pm(10\%+5d)$
Continuity check	less than 100 $\Omega$		
Power supply	9V battery		
Dimension (L×W×H)	150×70×48mm		
Weight	255g		

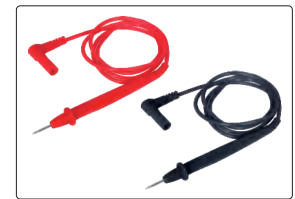
**STANDARD DELIVERY**

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

## MINI DIGITAL MULTIMETER (BASIC TYPE) CODE 9242-ML100A



- 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)

### SPECIFICATION

Function	Range	Resolution	Accuracy ("d" is the least reading)
DC Voltage	200.0mV	0.1mV	±(0.7%+3d)
	2000mV	1mV	±(0.5%+2d)
	20.00V/200.0V/600V	0.01V/0.1V/1V	±(0.7%+3d)
AC Voltage (40~400Hz)	200.0V/600V	0.1V/1V	±(1.2%+3d)
DC Current	200.0µA/200.0mA	0.1µA/0.1mA	±(1.0%+2d)
	10.00A	0.01A	±(1.2%+5d)
Resistance	200.0Ω	0.1Ω	±(1.0%+2d)
	2000Ω/20.00kΩ/200.0kΩ	1Ω/0.01kΩ/0.1kΩ	±(0.8%+2d)
	20.00MΩ	0.01MΩ	±(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 (LxWxH)	134×77×47mm		
Weight	206g		

### STANDARD DELIVERY

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

## 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



test leads (included)



### 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	±(0.5%+3)
AC Voltage	60mV/600mV/6V/60V/600V	0.01mV/0.1mV/0.001V/0.01V/0.1V	±(1.0%+3)
DC Current	6000µA/60mA/600mA	1µA/0.01mA/0.1mA	±(1.2%+5)
AC Current	6000µA/60mA/600mA	1µA/0.01mA/0.1mA	±(1.5%+5)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(1.0%+5)
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	±(1.5%+3)
Capacitance	6nF/60nF/600nF/6µF/60µF/600µF	0.001nF/0.01nF/0.1nF/0.001µF/0.01µF/0.1µF	±(4.0%+5)
	6mF/60mF	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%+5)
	10MHz	0.001MHz	±(3.0%+5)
Duty cycle	1~99%	0.1%	±(3.0%+5)
Diode measurement	open circuit voltage 2.0V		
Continuity measurement	<50Ω		
Power supply	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

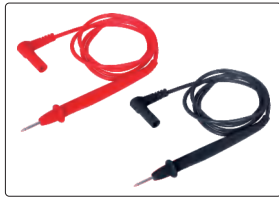
Function	Range	Resolution	Accuracy
DC Voltage	600mV/6V/60V/600V/1000V	0.1mV/0.001V/0.01V/0.1V/1V	±(0.5%+3)
AC Voltage	6V/60V/600V/750V	0.001V/0.01V/0.1V/1V	±(0.8%+5)
DC Current	60μA/60mA/600mA/10A	0.01μA/0.01mA/0.1mA/0.01A	±(1.2%+3)
AC Current	60mA/600mA/10A	0.01mA/0.1mA/0.01A	±(1.5%+3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	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 supply	2×1.5V AA batteries		
Dimension (L×W×H)	188×88×50mm		
Weight	424g		

# BLUETOOTH DIGITAL MULTIMETER CODE 9219-KV220

DATA  
OUTPUT



- Built-in bluetooth
- Mobile app is 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

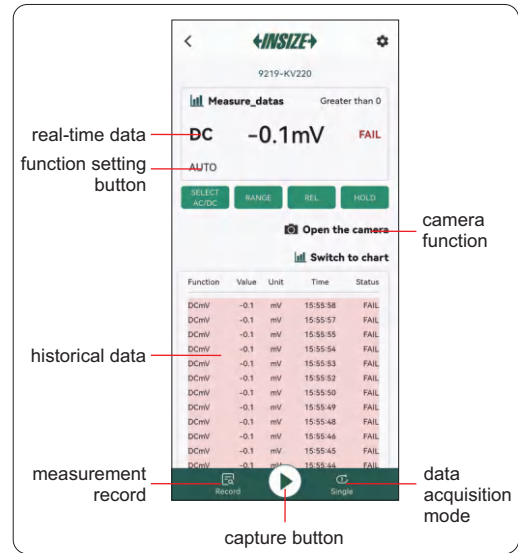


test leads (included)



temperature probe (included)

app (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	0.001nF/0.01nF/0.1nF/0.001µF	±(4.0%+5d)	
	99.99µF/999.9µF	/0.01µF/0.1µF		
Frequency	9.999mF	0.001mF	±(10.0%)	
	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	3×1.5V AAA batteries			
Dimension (L×W×H)	187×88×56mm			
Weight	400g			



**DIGITAL MULTIMETER  
CODE 9215-E510**

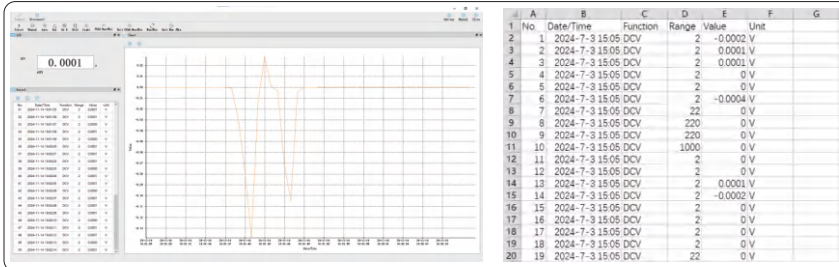
**DATA  
OUTPUT**

- 22000 counts digital display
- Data transmission via USB
- True RMS measurement
- Data hold
- Peak/Max/Min mode
- Low pass filter function
- NCV detection
- Low battery indication
- Auto power off
- Safety rating: CAT III 1000V, CAT IV 600V


 USB connection cable  
(included)

 conversion plug (transistor)  
(included)


computer software (included): connect to PC software via USB cable to collect, display and store data


**STANDARD DELIVERY**

<b>Main unit</b>	1 pc
<b>Test lead</b>	2 pcs
<b>USB connection cable</b>	1 pc
<b>Conversion plug (transistor)</b>	1 pc
<b>Battery (AAA)</b>	4 pcs

**SPECIFICATION**

Function	Range	Resolution	Accuracy ("d" is the resolution)
<b>DC Voltage</b>	220mV	0.01mV	±(0.1%+5d)
	2.2V/22V/220V	0.1mV/0.001V/0.01V	±(0.05%+5d)
	1000V	0.1V	±(0.1%+5d)
<b>AC Voltage</b>	220mV	0.01mV	±(1.0%+10d), 40Hz~1kHz ±(1.5%+30d), 1kHz~10kHz
	2.2V/22V	0.1mV/1mV	±(0.8%+10d), 40Hz~1kHz ±(1.2%+50d), 1kHz~10kHz
	220V	10mV	±(0.8%+10d), 40Hz~1kHz ±(2.0%+50d), 1kHz~10kHz
	1000V	0.1V	±(1.2%+10d), 40Hz~1kHz ±(3.0%+50d), 1kHz~10kHz
<b>DC Current</b>	220μA/2200μA/22mA/220mA	0.01μA/0.1μA/0.001mA/0.01mA	±(0.5%+10d)
	20A	0.001A	±(1.2%+50d)
<b>AC Current</b>	220μA/2200μA	0.01μA/0.1μA	±(0.8%+10d), 40Hz~1kHz ±(3.0%+50d), 1kHz~10kHz
	22mA/220mA/20A	0.001mA/0.01mA/0.001A	±(1.2%+10d), 40Hz~1kHz ±(3.0%+50d), 40Hz~1kHz
<b>Resistance</b>	220Ω/2.2kΩ/22kΩ/220kΩ	0.01Ω/0.0001kΩ/0.001kΩ/0.01kΩ	±(0.5%+10d)
	2.2MΩ	0.0001MΩ	±(0.8%+10d)
	22MΩ	0.001MΩ	±(1.5%+10d)
	220MΩ	0.01MΩ	±(3.0%+50d)
<b>Capacitance</b>	22nF/220nF/2.2μF/22μF	0.001nF/0.01nF/0.0001μF/0.001μF	±(3.0%+5d)
	220μF/2.2mF	0.01μF/0.0001mF	±(4.0%+5d)
	22mF	0.001mF	±(10%+5d)
	220mF	0.01mF	±(20%+5d)
<b>Frequency</b>	10Hz~220MHz	0.01Hz~0.01MHz	±(0.01%+5d)
<b>Duty cycle</b>	0.1%~99.9%	0.1%	±(2.0%+5d)
<b>Transistor hFE</b>	range: 1β~1000β		
<b>Diode test</b>	open circuit voltage: 3V		
<b>Continuity check</b>	<50Ω		
<b>Power supply</b>	4×1.5V AAA batteries		
<b>Dimension</b>	186×89×49mm		
<b>Weight</b>	400g		