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MASTECH®

MASTECH



MASTECH®

BUILD TO PRECISION

CATALOGUE 2019

Distributor

www.mastech-group.com

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2019

MGL

MASTECH®



Chairman's Message

Mr Kai-Yin Ip, founder of Precision Mastech Enterprises was a true spirit from Hong Kong. His envisions for the electrical testing industry and business came alive whilst sitting at the Kowloon Pier in front of the Victoria Harbor.

The business started in a small and flat-planned industrial building where Mr. Ip and his founding team built the Mastech business from ground up and by 1998, our manufacturing facility focuses mainly on housing and plastic parts and cables and metal parts for both our injection workshop and metal workshop. With this business execution and expansion, Mastech soon had its foot-stamp on the world map and is well known for its quality and reliability.

With 30 years of technical knowledge alongside a group of young sales team, Mastech has developed a reputation for excellence:

- Excellence in providing Customer Service
- Excellence in providing Solution-based strategy to all our partners
- Excellence in Innovation in both our products and our solutions
- Excellence in building Long-term Partnerships
- Excellence in creating a Business-Friendly culture
- Excellence in genuine Cooperation

With the remodeling of the Mastech business model in 2010, it has now expanded its footsteps onto the world map with a 92,000 square feet factory in China since 2016, a 34,000 square feet office and warehouse set up in North & Central America, an office located in Mexico and a whopping 130,000 square feet office and warehouse in Spain.

These locations and upgraded facility in our engineering lab, automated production lines and SMT lines allow us to become the fastest, most efficient and best of all, the most results driven business partner in our industry.

This new business model allows all our partners to enjoy:

- Increase Lead Time (meaning decreased waiting time)
- Increased budget-spend on MOQ (meaning less pressure on minimum orders)
- Increased value on Costing (meaning decreased operating cost)
- Increased Post Sale Services (meaning partners are able to enjoy a seamless buying experience)

Mastech shall at all times adhere to all your needs and requirements, even at the most challenging of times.

Mastech shall continue to strive to advance our technologies and developments in these forever evolving times.

Mastech shall endure the ultimate test to sustain growth, superior performances and exceptional deliveries.

Come and experience the Mastech journey.

Jackie Ip
Chairman
MGL Group

About Us

At MASTECH, we focus on providing the highest quality and innovative Measuring Instruments with the best service to our customers. Over more than 30 years we have been listening to our customers and developing MASTECH solutions to satisfy the market needs, based in a continuous improvement program, strong efforts in our R&D department and implementing the last technologies in our products.

Innovation, Technology, Leadership

Information, imagination and initiative are the key points of our innovation to meet new requirements and satisfy needs in the electrical market. We explore and research, developing ideas and technologies, always moving forward to contribute to progress.

We design products to make your life easier

With our rich product lines and continuous upgrades and improvement, we have built a full range of reliable Measuring Instruments directed towards a wide range of users, from DIY household use or educational institutions to professional electricians or construction sector and industry. This product range covers from Multimeters and Clamp Meters to Voltage Testers, Circuit Testers and all range of Environmental Testers.

At MASTECH, safety and quality is our top concern in product development. Our R&D and production lines are in strict compliance with International Electrotechnical Commission (IEC), and each product is manufactured and tested following International Safety and Environmental standards, with International certifications such as CE, ETL, UL or GS.

MASTECH Team

Our team always works aiming at two main areas:

1. Customers:
- Customer-focused.
- Post-Sales service
- Efficient Logistics
- Professional Technical support

2. Business
- Brand
- Innovation
- Technology
- Teamwork
- Delivery
- Social Responsibility



MGL Group

Since 2018, MASTECH is incorporated into MGL, a Worldwide Group with facilities in 3 continents and presence in a large number of countries all around the world, from USA, Mexico or Peru; United Kingdom, Spain, or Germany; Algeria, South Africa or Tanzania to India, Japan or Korea.

Specialized in the electrical field, MGL covers different segments, from DIY test and measuring, automotive electrical diagnostic or industrial and professional testing to power and energy saving solutions. Thus, MGL counts with more than 800 employees around the world, who are highly qualified professionals and specialized in the sector.

MGL is formed globally. Our teams are from all around the world and our customers are based globally. With this global vision, our business strategy is based on strategic analysis of each individual market, allowing us to interact with proximity and adapt to each area. Our proposals are always focused to fulfil all requirements, and our solutions are guaranteed to create added value services.

Thinking globally, acting locally.

Partners around the world



ANDORRA
ALGERIA
ARGENTINA
AUSTRALIA
AUSTRIA
AZERBAIJAN
BAHRAIN
BANGLADESH
BELGIUM
BRAZIL
BULGARIA
CANADA
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MYANMAR
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SOUTH AFRICA
SPAIN
SRI LANKA
SWEDEN
SWITZERLAND
SYRIA
THAILAND
TURKEY
U.A.E.
U.K.
U.S.A
UKRAINE
URUGUAY
VIETNAM

New Technologies

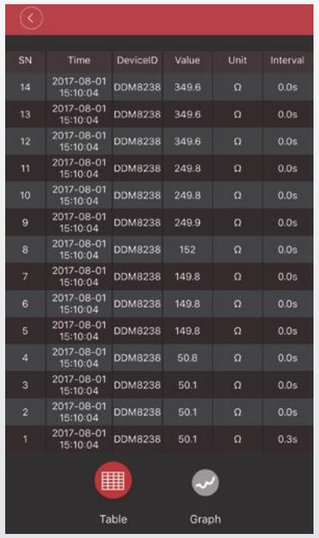


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SN	Time	DeviceID	Value	Unit	Interval
14	2017-08-01 15:10:04	DDM8238	349.6	Ω	0.0s
13	2017-08-01 15:10:04	DDM8238	349.6	Ω	0.0s
12	2017-08-01 15:10:04	DDM8238	349.6	Ω	0.0s
11	2017-08-01 15:10:04	DDM8238	249.8	Ω	0.0s
10	2017-08-01 15:10:04	DDM8238	249.8	Ω	0.0s
9	2017-08-01 15:10:04	DDM8238	249.9	Ω	0.0s
8	2017-08-01 15:10:04	DDM8238	152	Ω	0.0s
7	2017-08-01 15:10:04	DDM8238	149.8	Ω	0.0s
6	2017-08-01 15:10:04	DDM8238	149.8	Ω	0.0s
5	2017-08-01 15:10:04	DDM8238	149.8	Ω	0.0s
4	2017-08-01 15:10:04	DDM8238	50.8	Ω	0.0s
3	2017-08-01 15:10:04	DDM8238	50.1	Ω	0.0s
2	2017-08-01 15:10:04	DDM8238	50.1	Ω	0.0s
1	2017-08-01 15:10:04	DDM8238	50.1	Ω	0.3s

Table Graph

SMARTPHONE CONNECTIVITY

Today the Smartphone has become our global management device. We use it for all aspects of our life, to be connected to the Internet and in touch with our contacts, store all kind of data, share documents and experiences, etc. In short, it is the platform to be connected with the world.
This trend also affects measuring instruments. Increasingly, instruments with connectivity are becoming more important, functioning as a global system rather than independent or isolated devices.

For this reason, and in order to offer to the market instruments with this technology, we have developed a range of instruments with the ability to connect to Smartphones, using an app for both Android platform and iOS platform, totally free and available in the most usual app stores.
Connecting our instruments with the Smarthpone cannot be easier; just by pressing the "LINK" button, everything is already done.





This technology offers multiple benefits and multiplies the functionality and versatility of measuring instruments:

- Display on the Smartphone. It makes possible to see the display of the measuring instrument simultaneously and in real time on the Smartphone. This allows us to perform readings remotely through the Smartphone, useful -for example- when the instrument is in a place difficult to access or when two users want to read the display at the same time.

- No mistakes with the test leads. A common problem is to select a function in the instrument and connect the test leads in the wrong sockets. This may damage the instrument, as in the case of measuring voltage but selecting current, which causes the fuse to break. Our app, every time you select a function, shows you clearly where to connect the test leads.

- Data logging. There is no longer need to provide internal memory for measuring instruments, and then send the data to the Smartphone or the computer through complex procedures using cables and software. The app performs data logging, using the memory of the Smartphone, and allowing info to be displayed on the screen, either in table format or as a graphic. In addition, we generate files that we can share with any partner or client immediately through the Internet.

New Technologies

SMART SMART

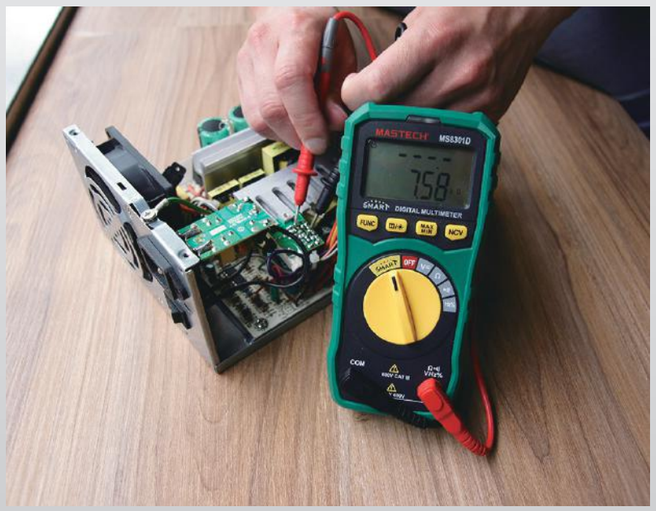
SMART is a new technology in the field of electrical measuring instruments. The instruments equipped with this technology are able to recognize by themselves the electrical parameter that is being measured, without the need for the user to indicate it on the equipment by the rotary knob.

What are the main benefits of this technology?

-Time saving. Often the users of measuring equipments carry out a large number of readings. With SMART technology, we avoid wasting time by changing the position of the rotary knob. And in the easiest way, just connect the test leads and measure, that's all.

-No mistakes. It is common to make mistakes in the use of the measuring instrument. Whether due to lack of attention, or because the user is not an expert, a function that does not correspond to what we are measuring is wrongly selected on the rotary knob. What causes this? Misunderstanding of measurements and even damage to measuring equipment. SMART avoids all this, since with this technology these errors are impossible to make.





MASTECH®

CONTENTS

1. ELECTRICAL SAFETY
1.1 Earth resistance testers ---- 028
1.2 Insulation resistance testers ---- 032
1.3 PAT testers ---- 037
2. DIGITAL MULTIMETERS
2.1 Pocket size ---- 040
2.2 Manual range ---- 043
2.3 Auto range ---- 050
2.4 Special application ---- 059
2.5 Bench type ---- 065
3. DIGITAL CLAMP METERS
3.1 AC current ---- 071
3.2 AC/DC current ---- 079
3.3 Leakage ---- 085
3.4 Power ---- 088
3.5 Special application ---- 090
3.6 Line splitters ---- 092
4. VOLTAGE TESTERS
4.1 Non contact voltage testers ---- 094
4.2 Two pole voltage testers ---- 099
5. CIRCUIT TESTERS
5.1 Wire testers and trackers ---- 101
5.2 Socket testers ---- 106
5.3 Circuit breaker finders ---- 108
6. THERMOMETERS
6.1 IR thermometers ---- 111
6.2 Digital thermometers ---- 118
7. ENVIRONMENTAL METERS
7.1 Light meters ---- 124
7.2 Anemometers ---- 126
7.3 Sound level meters ---- 127
7.4 Laser distance meters ---- 129
7.5 Tachometers ---- 130
7.6 Moisture meters ---- 131
7.7 Gas detectors ---- 132
7.8 Multifunction environmental meters ---- 133
8. PROCESS CALIBRATORS ---- 135
9. PHASE ROTATION TESTERS ---- 139
10. LCR METERS ---- 141
11. CIRCUIT ANALYZERS ---- 147
12. ACCESORIES ---- 148

Fast Selection Charts

MASTECH®

EARTH RESISTANCE TESTERS

CAT II
CAT III
CAT IV

	Earth clamp meter	3 wires method	4 wires method. Soil resistivity	2 clamps method
Model	MS2301	MS2302	MS2306	MS2308
Page	28	29	30	30
Safety Rating	CAT III 150V	CAT III 300V		
Resistance	0.01Ω~1200Ω	0.01Ω~4000Ω	0.02Ω~20kΩ	0.02Ω~300kΩ
Measurement Voltage		AC 200V	AC 20V/48V DC 20V	AC 20V/48V DC 20V
Sensing & inducing current transformer				•
Back light		•	•	•
Certificate		CE/ETL	CE/ETL	CE/ETL

INSULATION RESISTANCE TESTERS

CAT II
CAT III
CAT IV

	Entry level 1kV	1KV	2.5KV	5KV
Model	MS5201	MS5203	MS5205	MS5215
Page	32	33	36	34
Safety Rating	CAT II 1000V / CAT III 600V	CAT III 1000V / CAT IV 600V	CAT III 1000V / CAT IV 600V	CAT III 1000V / CAT IV 600V
Insulation Resistance	0.01MΩ~2GΩ	0.01MΩ~10GΩ	0.01MΩ~100GΩ	0.01MΩ~5TΩ
Output Voltage	1kV DC	1kV DC	2.5kV DC	5kV DC
Leakage Current test				1nA~3mA
Continuity Test		0.01Ω~200Ω (1mA)	0.01Ω~200Ω (1mA)	
Measurement Voltage	DC 1000V AC 700V	DC 1000V AC 750V	DC 1000V AC 750V	DC 1000V AC 750V
Short Current	1.8mA	1.8mA	3mA	3mA
Temperature Test				-10~70°C
Back Light		•	•	•
Interface				USB
Certificate		CE/ETL	CE/ETL	CE/ETL

PAT TESTERS

CAT II
CAT III
CAT IV

	U.K. socket	U.S. socket	E.U. socket	QWERTY keyboard. U.K. socket	QWERTY keyboard. U.S. socket	QWERTY keyboard. E.U. socket
Model	MS5911	MS5911A	MS5911D	MS5922E	MS5922A	MS5922D
Page	37	37	37	38	38	38
Safety Rating	CAT II 300V	CAT II 300V	CAT II 300V	CAT II 300V	CAT II 300V	CAT II 300V
Grounding	20Ω	20Ω	20Ω	20Ω	20Ω	20Ω
Insulation Resistance	20MΩ	20MΩ	20MΩ	20MΩ	20MΩ	20MΩ
leakage current	10.5mA	10.5mA	10.5mA	10.5mA	10.5mA	10.5mA
Cord Test	•	•	•	•	•	•
Polarity Test	•	•	•	•	•	•
Power Socket Test	•	•	•	•	•	•
Auto Power Off	•	•	•	•	•	•
Backlight	•	•	•	•	•	•
Data logging	300 groups	300 groups	300 groups	300 groups	300 groups	300 groups
Built-in Keyboard				•	•	•
Certificate	CE		CE	CE		CE

Fast Selection Charts

MASTECH®

DIGITAL MULTIMETERS

	POCKET				MANUAL RANGE ESSENTIALS			
CAT II CAT III CAT IV	300V	600V	TRMS	Pen Type	10A DC current	Backlight	Temperature	Battery test
Model	M300C	M320	MS8333A	MS8223A	MAS830	MAS830L	MAS838	MS8238
Page	40	40	41	42	43	43	44	45
Safety Rating	CAT III 300V	CAT II 600V CAT III 300V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V
Display Counts	2000	4000	6000	2000	2000	2000	2000	2000
Autoranging		•	•	•				
Auto Power Off		•	•	•				
True RMS			•					
DC Voltage	300V	600V	600V	600V	600V	600V	600V	600V
AC Voltage	300V	600V	600V	600V	600V	600V	600V	600V
DC Current	200mA	400mA	600mA	200mA	10A	10A	10A	10A
AC Current		400mA	600mA	200mA				
Resistance	2MΩ	40MΩ	60MΩ	20MΩ	2MΩ	2MΩ	2MΩ	2MΩ
Capacitance		100μF	600μF					
Frequency		100kHZ	10kHZ					
Duty Cycle			•					
Type K Temparature							-20~1000℃	
Battery Test			•					•
Diode	•	•	•	•	•	•	•	•
Continuity	•	•	•	•	•	•	•	•
Display Backlight			•			•		
Work Light				•				
Data Hold		•	•	•	•	•	•	•
NCV			•	•				
Inductance								
hFE Transistor								
Dual Display								
MAX				•				
MAX/MIN								
MAX/MIN/AVG								
Relative Measurement								
Peak Measurement								
DWELL Test								
TACH Test								
Logic Level Test				•				
Retractable Tip								
Double Molding				•				
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	

DIGITAL MULTIMETERS

	MANUAL RANGE ADVANCED		MANUAL RANGE MASTER				AUTO RANGE ESSENTIALS	
CAT II CAT III CAT IV	NCV	NCV. Temperature	Transistors. μA.	Transistor. Temperature	20,000 counts	Inductance	10A AC/DC current	10A AC/DC current. Temperature
Model	MS8233B	MS8233C	MY70	MY74	MY75	MS8269	MS8233D	MS8233E
Page	46	46	47	47	48	49	50	50
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT II 1000V CAT III 600V	CAT II 600V	CAT III 600V
Display Counts	2000	2000	2000	2000	20000	20000	2000	2000
Autoranging							•	•
Auto Power Off			•	•	•	•	•	•
True RMS								
DC Voltage	600V	600V	600V	600V	600V	1000V	600V	600V
AC Voltage	600V	600V	600V	600V	600V	750V	600V	600V
DC Current	10A	10A	10A	10A	10A	10A	10A	10A
AC Current			10A	10A	10A	10A	10A	10A
Resistance	2MΩ	2MΩ	200MΩ	200MΩ	200MΩ	20MΩ	20MΩ	20MΩ
Capacitance				100μF	100μF	200μF		
Frequency				20kHz	20kHz		20kHz	
Duty Cycle								
Type K Temparature		-20~1000℃ -4~1832℉		-20~1000℃		-20~1000℃		-20~1000℃ -4~1832℉
Battery Test								
Diode	•	•	•	•	•	•	•	•
Continuity	•	•	•	•	•	•	•	•
Display Backlight	•	•					•	•
Work Light								
Data Hold	•	•	•	•	•		•	•
NCV	•	•				•	•	•
Inductance						20H		
hFE Transistor			•	•		•		
Dual Display								
MAX							•	•
MAX/MIN								
MAX/MIN/AVG								
Relative Measurement								
Peak Measurement								
DWELL Test								
TACH Test								
Interface								
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL			CE/ETL

Fast Selection Charts

MASTECH®

DIGITAL MULTIMETERS

CAT II
CAT III
CAT IV

	AUTO RANGE ADVANCED				AUTO RANGE MASTER			
	Capacitance. Frequency. Temperature	SMART	Industrial multimeter	Industrial multimeter. Bar graph.	SMARTPHONE	SMARTPHONE	Industrial multimeter. TRMS.	TRMS. USB.
Model	MS8239C	MS8301D	MS8250A	MS8251A	MS8238H	MS8361D	MS8251B	MS8250D
Page	51	52	53	54	55	56	57	58
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 1000V / CAT IV 600V	CAT III 600V	CAT III 600V	CAT III 1000V / CAT IV 600V	CAT III 1000V / CAT IV 600V
Display Counts	4000	6000	4000	6600	4000	4000	6600	6600
Autoranging	•	•	•	•	•	•	•	•
Auto Power Off	•	•	•	•	•	•	•	•
True RMS					•	•	•	•
DC Voltage	600V	600V	600V	1000V	600V	600V	1000V	1000V
AC Voltage	600V	600V	600V	1000V	600V	600V	1000V	1000V
DC Current	10A		10A	10A	10A	10A	10A	10A
AC Current	10A		10A	10A	10A	10A	10A	10A
Resistance	40MΩ	10MΩ	40MΩ	66MΩ	40MΩ	40MΩ	66MΩ	66MΩ
Capacitance	100μF		100μF	66mF		100mF	66mF	66mF
Frequency	10MHz	3kHz	5MHz	66MHz		10MHz	66MHz	66MHz
Duty Cycle	•	•	•	•		•	•	•
Type K Temparature	-20~1000℃ -4~1832℉			0~1000℃ 32~1832℉	-20~1000℃ -4~1832℉		0~1000℃ 32~1832℉	
Battery Test					•			
Diode	•		•	•	•	•	•	•
Continuity	•	•	•	•	•	•	•	•
Display Backlight	•	•	•	•		•	•	•
Work Light								
Data Hold	•	•	•	•	•	•	•	•
NCV		•	•	•	•	•	•	•
Inductance								
hFE Transistor						•		
Dual Display		•		•			•	•
MAX								
MAX/MIN		•		•			•	•
MAX/MIN/AVG								
Relative Measurement			•	•		•	•	•
Low Impedance							•	
Bar Graph				•			•	•
TACH Test								
Interface					Wireless	Wireless		
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL

DIGITAL MULTIMETERS

CAT II
CAT III
CAT IV

	SPECIAL APPLICATION					
	Environmental functions	Environmental functions	Automotive	Cable Tracker	Insulation test. SMARTPHONE	Insulation Test
Model	MS8209	MS8229	MS8239D	MS8236	MS5206	MS5208
Page	59	60	61	62	63	64
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 1000V	CAT III 1000V / CAT IV 600V
Display Counts	4000	4000	2000	2000	6600	6600
Autoranging	•	•	•	•	•	•
Auto Power Off	•	•	•	•	•	•
True RMS					•	•
DC Voltage	600V	1000V	600V	600V	1000V	1000V
AC Voltage	600V	750V	600V	600V	660V	750V
DC Current	10A	10A	10A	10A		400mA
AC Current	10A	10A	10A	10A		400mA
Resistance	40MΩ	40MΩ	20MΩ	20MΩ	200MΩ	60MΩ
Capacitance	200μF	100μF				60mF
Frequency	200kHz	200kHz				10kHz
Duty Cycle	•					
Type K Temparature	-20~1000℃	-20~1000℃ -4~1832℉				-30~1300℃ -22~2372℉
Diode	•	•	•	•		•
Continuity	•	•	•	•		•
Display Backlight	•	•	•	•	•	•
Work Light						
Data Hold	•	•	•	•		•
NCV				•		
Inductance						
hFE Transistor						
MAX			•	•		
MAX/MIN					•	
MAX/MIN/AVG						•
Relative Measurement	•					•
Peak Measurement						
Low Pass Filter						•
Insulation Test					1000V/10GΩ	1000V/2GΩ
DAR / PI					•	•
Relative Humidity	30~90%	20~95%				
Sound level	35~100dB	40~100dB				
Luminosity	40000Lux	4000/40000Lux				
Infrared Temperature						
Environment Temperature		0~40℃ 32~104℉				
Cable Check				RJ11/RJ45/Tone		
Sound & Light Warning		•				
Data Logging						100 Groups
Interface					Wireless	
DWELL Test			•			
TACH Test			•			
Certificate		CE/ETL	CE/ETL		CE/ETL	CE/ETL

Fast Selection Charts

MASTECH®

DIGITAL MULTIMETERS

CAT II
CAT III
CAT IV

BENCH TYPE

	22,000 Counts	Multifunction	53,000 Counts
			
Model	MS6100	MS8040	MS8050
Page	65	66	68
Safety Rating		CAT II 1000V	CAT II 1000V
Display Counts	22000	22000	53000
Autoranging	•	•	•
Auto Power Off		•	•
True RMS		•	•
DC Voltage		1000V	1000V
AC Voltage		750V	1000V
DC Current		10A	10A
AC Current		10A	10A
Resistance		200MΩ	50MHz
Capacitance		200mF	5mF
Frequency	1300MHz		
Logic Frequency		220MHz	2MHz
Linear Frequency		100kHz	200kHz
Duty Cycle		•	•
OSC. Out	10MHz		
Type K Temperature		-30~1300℃	
Diode		•	•
hFE Transistor			
Continuity		•	•
Backlight		•	•
Data Hold	•	•	•
MAX/MIN/AVG		MAX/MIN	•
Relative Measurement	•	•	•
Peak Measurement		•	
Low Pass Filter	•	•	
Bar Graph		•	
DC Current (For Clamp)		220/2200A	
AC Current (For Clamp)		220/2200A	
ADP measurement			
Data Logging			30 Groups
Analysis Software			•
Interface		USB	USB
Certificate	CE/ETL	CE/ETL	

DIGITAL CLAMP METERS

CAT II
CAT III
CAT IV

AC CURRENT
ESSENTIALS

	SMART	400A	600A. Temperature	1,000A. 50mm jaw	1,000A. Temperature	1,000A. Frequency	2,000A. 55mm jaw
							
Model	MS2033A	MS2030	MS2030B	M266	M266C	M266F	MS2000G
Page	71	72	72	73	73	73	74
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT II 1000V / CAT III 600V	CAT II 1000V / CAT III 600V	CAT II 1000V / CAT III 600V	CAT II 1000V
Display Counts	6000	2000	4000	2000	2000	2000	2000
Jaw Size	Φ26mm 1.0"	Φ28mm 1.1"	Φ28mm 1.1"	Φ50mm 2.0"	Φ50mm 2.0"	Φ50mm 2.0"	Φ55mm 2.2"
Autoranging	•		•				
Auto Power Off	•		•				
True RMS							
DC Voltage	600V	600V	600V	1000V	1000V	1000V	1000V
AC Voltage	600V	600V	600V	750V	750V	750V	750V
DC Current							
AC Current	600A	400A	600A	1000A	1000A	1000A	2000A
Inrush Current							
Resistance	10MΩ	2kΩ	40MΩ	20kΩ	2MΩ	2MΩ	2MΩ
Capacitance			100μF				
Frequency	3kHz		10kHz			2kHz	20kHz
Duty Cycle	•		•				
Type K Temparature			-20~1000℃ -4~1832℉		0~750℃ 32~1382℉		0~750℃
Diode		•	•			•	•
Continuity	•	•	•	•	•	•	•
Display Backlight	•		•				•
Work Light			•				
Data Hold	•	•	•	•	•	•	•
NCV							
MAX/MIN	•						
Relative Measurement							
Bar Graph							
Insulation Test				2000MΩ	2000MΩ	2000MΩ	
DC Current (From Plug)							
Low Pass Filter							
Low Impedance							
Dual Display							
Infrared Temperature							
Interface							
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL		CE/ETL	

Fast Selection Charts

DIGITAL CLAMP METERS

	AC CURRENT ADVANCED		AC CURRENT MASTER			AC/DC CURRENT ESSENTIALS
CAT II CAT III CAT IV	600A. Work light. NCV	600A. Temperature.	600A. TRMS.	1.000A TRMS	TRMS. Temperature	1000A. Temperature
Model	MS2009A	MS2009C	MS2028A	MS2025A	MS2025C	MS2101
Page	75	75	78	76	76	79
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V	CAT II 1000V CAT III 600V
Display Counts	2000	6000	2000	6000	6600	4000
Jaw Size	Φ26mm 1.0"	Φ26mm 1.0"	Φ26mm 1.0"	Φ40mm 1.6"	Φ40mm 1.6"	Φ42mm 1.7"
Autoranging	•	•	•	•	•	•
Auto Power Off	•	•	•	•	•	•
True RMS			•	•	•	
DC Voltage	600V	600V	600V	1000V	1000V	1000V
AC Voltage	600V	600V	600V	750V	750V	750V
DC Current						1000A
AC Current	600A	600A	600A	1000A	1000A	1000A
Inrush Curremt						
Resistance	20MΩ	60MΩ	20MΩ	60MΩ	66MΩ	40MΩ
Capacitance		60mF		100mF	66mF	40μF
Frequency		10MHz		10MHz	66MHz	100kHz
Duty Cycle		•		•	•	•
Type K Temparature		-20~1000℃ -4~1832℉			-20~1000℃ -4~1832℉	-40~750℃
Diode	•	•	•	•	•	•
Continuity	•	•	•	•	•	•
Display Backlight	•	•	•	•	•	
Work Light	•	•		•	•	
Data Hold	•	•	•	•	•	•
NCV	•	•		•	•	
MAX/MIN	Max		Max	•	•	
Relative Measurement				•	•	•
Bar Graph					•	
Insulation Test						
DC Current (From Plug)						
Low Pass Filter						
Low Impedance						
Dual Display						
Infrared Temperature					•	
Interface						
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	

MASTECH®

DIGITAL CLAMP METERS

	AC/DC CURRENT ADVANCED			AC/DC CURRENT MASTER		LEAKAGE	
CAT II CAT III CAT IV	600A. Capacitance.	600A. Temperature.	80A. Temperature.	600A. TRMS.	1000A. TRMS.	60A. 1μA	150A. 1μA. Low Pass Filter.
Model	MS2128A	MS2109A	MS2160	MS2128	MS2125A	MS2006B	MS2016A
Page	80	81	82	83	84	85	86
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 1000V CAT IV 600V	CAT III 600V	CAT III 600V
Display Counts	4000	6000	4000	6600	6000	2000	4000
Jaw Size	Φ26mm 1.0"	Φ26mm 1.0"	Φ24mm 0.9"	Φ26mm 1.0"	Φ40mm 1.6"	Φ31mm 1.2"	Φ30mm 1.2"
Autoranging	•	•	•	•	•	•	•
Auto Power Off	•	•	•	•	•		•
True RMS				•	•		•
DC Voltage	600V	600V	600V	600V	1000V		600V
AC Voltage	600V	600V	600V	600V	750V		600V
DC Current	600A	600A	80A	600A	1000A		
AC Current	600A	600A	80A	600A	1000A	60A	150A
Inrush Curremt				600A	1000A		
Resistance	40MΩ	60MΩ	40MΩ	66MΩ	60MΩ		40MΩ
Capacitance	4mF	4mF	40mF	66mF	100mF		40mF
Frequency	10kHz	10MHz	10MHz	10kHz	10MHz		
Duty Cycle	•	•	•	•	•		
Type K Temparature		-20~1000℃ -4~1832℉	-20~1000℃ -4~1832℉				20~1000℃ -4~1832℉
Diode	•	•	•	•	•		•
Continuity	•	•	•	•	•		•
Display Backlight	•	•	•	•	•		
Work Light	•	•	•	•	•		
Data Hold	•	•	•	•	•	•	•
NCV		•	•		•		
MAX/MIN	•	•		•	•		•
Relative Measurement	•	•			•		
Bar Graph	•						
Insulation Test							
DC Current (From Plug)							
Low Pass Filter							•
Low Impedance							
Dual Display							
Infrared Temperature							
Interface							
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL		CE/ETL

Fast Selection Charts

MASTECH®

DIGITAL CLAMP METERS

CAT II
CAT III
CAT IV

	POWER			SPECIAL APPLICATION		
	SMARTPHONE	Three phase. Active energy.	Three Phase. Harmonics.	Open jaw	1,000 AC/DC	400A AC
Model	MS2225A	MS2203	MS2205	MS2601	MS3300	MS3302
Page	88	87	87	90	91	91
Safety Rating	CAT III 1000V	CAT III 600V	CAT III 600V	CAT III 600V	CAT II 600V	CAT II 600V
Display Counts	6000	9999	6000	6000		
Jaw Size	Φ40mm 1.6"	Φ50mm 2.0"	Φ50mm 2.0"	Φ12mm 0.5"	Φ55mm 2.2"	Φ28mm 1.1"
Autoranging	•	•	•	•		
Auto Power Off	•		•	•		
True RMS	•	•	•		•	
DC Voltage	1000V			600V		
AC Voltage	750V	600V	600V	600V		
DC Current					1000A	
AC Current	1000A	1000A	1000A	200A	1000A	400A
Inrush Curremt	1000A					
Resistance	60MΩ			60MΩ		
Capacitance	100mF	1kHz	1kHz	60mF		
Frequency	10MHz			60MHz		
Duty Cycle	•			•		
Type K Temparature				-20~400℃ -4~750℉		
Diode	•	•	•	•		
Continuity	•			•		
Display Backlight	•	•	•	•		
Work Light	•			•		
Data Hold	•			•		
NCV	•			•		
MAX/MIN	•	•				
Relative Measurement	•					
Active Power		600kW	600kW			
Apparent Power	750kW	600kVA	600kVA			
Reactive Power	750kVA	600kVAr	600kVAr			
Active Energy	750kVAr	0.3~1	0.3~1			
Power Factor	0.3~1	9999Wh				
Dual Display	45~65Hz		45~65Hz			
Harmonic Measurement		28 Groups	100 Groups			
Data Logging						
Interface	Wireless	RS232	RS232			
Certificate	CE/ETL			CE/ETL		

LINE SPLITTERS

CAT II
CAT III
CAT IV

	U.K	U.S	E.U
Model	MS922E	MS922A	MS922D
Page	92	92	92
Safety Rating	CAT II 600V	CAT II 600V	CAT II 600V
AC Voltage	250V	125V	250V
AC Current	15A	15A	15A
Frequency	50~60Hz	50~60Hz	50~60Hz
Feature	-Allows for easy AC Current measurements -Using a Clamp meter on 2 or 3 Wire Power Cords -Provides the Ability to Safely Measure Current without the need to cut or separate conductors -Separates the Hot/Live conductor from the Neutral and Ground -Voltage check sockets for easy power calculations		
Style	UK	US	EU
Certificate		ETL	

VOLTAGE TESTERS

CAT II
CAT III
CAT IV

	Adjustable sensitivity +Work Light	Household	Industrial	Adjustable sensitivity	Metal detection	Work Light	IR temperature	400V	RCD test
Model	MS8916A	MS8900C	MS8900A	MS8902A	MS8902B	MS8907	MS6580B	MS8922A	MS8922B
Page	94	95	95	96	96	97	98	99	99
Safety Rating	CAT IV 1000V	CAT III 600V	CAT II 1000V CAT III 600V	CAT II 1000V CAT III 600V	CAT II 1000V CAT III 600V	CAT II 1000V CAT III 600V	CAT II 1000V CAT III 600V	CAT III 400V	CAT III 400V
Non Contact Voltage	24~1000V	100~240V	90~1000V	12~1000V	20~1000V	50~1000V	12~1000V		
Contact Voltage								400V	400V
Frequency	50~60Hz	50~60Hz	50~60Hz	50~500Hz	50~500Hz	50~60Hz	50~60Hz	50~60Hz	50~60Hz
Laser Pointer	•								
Metal Detecting					<20mm				
RCD Test									•
Work Light	•					•	•		
Sound & Light	•	•	•	•	•	•	•		
Auto Power Off	•			•	•		•		
Sensitivity adjustment	•			•	•		•		
Infrared temperature							-20~330℃ -4~626℉		
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL

Fast Selection Charts

MASTECH®

WIRE TESTERS AND TRACKERS

CAT II
CAT III
CAT IV

	RJ45	RJ45 + coaxial	RJ11 + power	Multi-Function	Cable locator
					
Model	MS6811	MS6810	MS6812A	MS6813	MS6818
Page	101	101	102	103	104
Safety Rating					CAT III 300V
Auto Ranging					•
DC Voltage					12~400V
AC Voltage					12~400V
Frequency			300kHz	300kHz	125kHz
Sensitivity Adjustable			•	•	•
Electoric Wire	•		•	•	•
Coaxial Cable (BNC)		•		•	
Network Cable		•		•	
Telephone Wire			•	•	
Backlight	•				•
Worklight					•
Sound & light instructions			•	•	•
Certificate	CE/ETL	CE/ETL		CE/ETL	CE/ETL

SOCKET TESTERS AND CIRCUIT BREAKER FINDERS

CAT II
CAT III
CAT IV

	E.U	U.K	U.S	U.S. GFCI
				
Model	MS6860D	MS6860E	MS112	MS102
Page	106	106	107	107
Safety Rating	CAT II 230V	CAT II 230V	CAT II 125V	CAT II 125V
AC Volatge	230V	230V	125V	125V
Socket Test	•	•	•	•
GFCI				•
RCD				
Work Light				
NCV				
Buzzer and LED Instruction	•	•	•	•
Certificate	CE/ETL	CE/ETL	ETL	ETL

SOCKET TESTERS AND CIRCUIT BREAKER FINDERS

CAT II
CAT III
CAT IV

	E.U.	U.K.	U.S. GFCI	E.U.	U.K.	U.S. GFCI
						
Model	MS5902RTD	MS5902RTE	MS5902RTF	MS5905RTD	MS5905RTE	MS5905RTB
Page	108	108	108	109	109	109
Safety Rating	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V
AC Volatge	230V	230V	120V	230V	230V	125V
Socket Test	•	•	•	•	•	•
GFCI			•			•
Work Light	•	•				
NCV				•	•	•
Buzzer and LED Instruction	•	•	•	•	•	•
Certificate	CE/ETL	CE/ETL		CE/ETL	CE/ETL	

IR THERMOMETERS

	Infrared camera	Body-forehead	500°C	800°C	800°C, K type	30:1, K type
						
Model	MS6561	MS6518	MS6522B	MS6531B	MS6531C	MS6541
Page	112	111	114	115	116	117
Color Display				•	•	
IRT Temperature	-20~400°C -4~752°F	32~42°C 89~108°F	-20~500°C -4~932°F	-40~800°C -40~1472°F	-40~800°C -40~1472°F	-50~760°C -58~1400°F
Type K Temperature					-40~1080°C -40~1976°F	-50~300°C -58~572°F
Distance to Spot(D:S)	30:1		10:1	12:1	12:1	30:1
Emissivity	0.1~0.99	0.98	0.95	0.1~0.99	0.1~0.99	0.1~0.99
MAX/MIN/AVG/DIF			MAX/MIN/ AVG	•	•	•
Data Logging		10 groups			20 groups	100 groups
Backlight		•	•	•	•	•
Data hold		•	•	•	•	•
Interface	USB/MicroSD card					
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL

Fast Selection Charts

MASTECH®

DIGITAL THERMOMETERS

	K Type	K.J.T.E Type	Dual Channel	Data Logging	Dual Channel Data Logging	Humidity	Humidity Data Logging
							
Model	MS6500	MS6511	MS6512	MS6513	MS6514	MS6508	MS6505
Page	118	119	119	120	120	121	122
Thermocouple Type	K	K.J.T.E	K.J.T.E	K.J.T.E. R.S.N	K.J.T.E. R.S.N		
Temperature	-50~750℃ -58~1382℉	-200~1372℃ -328~2501℉	-200~1372℃ -328~2501℉	-200~1372℃ -328~2501℉	-200~1372℃ -328~2501℉	-20~60℃ -4~140℉	-20~60℃ -4~140℉
Injection Method	Single	Single	Dual	Single	Dual		
Channel		TC	T1/T2/T1-T2	TC	T1/T2/T1-T2		
Relative Humidity						0~100%	0~100%
Update Rate	500mS					400mS	
Clock							•
MAX/MIN/AVG/DIF		•	•	•	•	MAX/MIN	MAX/MIN
Date Logging				1000 groups	1000 groups	100 groups	16300 groups
Backlight						•	•
Date Hold	•	•	•	•	•	•	•
Interface				USB	USB		RS232
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL

ANEMOMETERS

	40 m/s	Humidity	SMARTPHONE
			
Model	MS6252A	MS6252B	MS6252D
Page	126	126	126
m/s (meter per second)	0.8~40 m/s	0.8~40 m/s	0.8~40 m/s
km/h (kilometer per hour)	2.88~144 km/h	2.88~144 km/h	2.88~144 km/h
ft/s (feet per second)	2.62~131.2 ft/s	2.62~131.2 ft/s	2.62~131.2 ft/s
Knots (nautical miles per hour)	1.6~77.70 Knots	1.6~77.70 Knots	1.6~77.70 Knots
mile/h (mile per hour)	1.8~90.00 mile/h	1.8~90.00 mile/h	1.8~90.00 mile/h
ft/m (feet per minute)	157.5~7874 ft/m	157.5~7874 ft/m	157.5~7874 ft/m
Temperature		-10~60℃	-10~60℃
Relative Humidity		20~80%RH	20~80%RH
Ambient		•	•
Dew point		•	•
Wet Bulb		•	•
Interface		USB	Wireless
Certificate	CE/ETL	CE/ETL	CE/ETL

LIGHT METERS

	50,000Lux	Bar graph	LED	SMARTPHONE
				
Model	MS6610	MS6612	MS6612B	MS6612D
Page	124	125	125	125
Auto Ranging		•	•	•
Auto Power Off		•	•	•
Display Counts	2000	2000	2000	2000
Range	50000Lux	200000Lux 20000FC	200000Lux 20000FC	200000Lux 20000FC 999900CD
Unit Selection	Lux	Lux / FC	Lux / FC	Lux / FC / CD
Relative		•	•	•
Peak		•	•	•
MAX/MIN		•	•	•
Data Hold	•	•	•	•
Bar Graph		•	•	•
LED light source			•	•
Interface				Wireless
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL

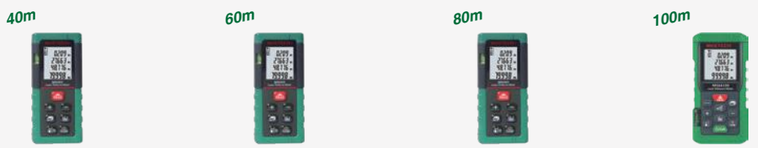
SOUND LEVEL METERS

	130dB	Data Logging
		
Model	MS6708	MS6701
Page	127	128
Display	2000	2000
Auto Ranging	•	•
Auto Power Off	•	•
Sound Level	30~130dB	30~130dB
Dynamic	50dB	50dB
Frequency	30Hz~8kHz	30Hz~8kHz
A / C Weighting	•	•
Data Logging		16000
Data Hold	•	
Date / Time		•
Backlight	•	•
MAX	•	•
AC adapter		•
AC/DC Signal output		•
Interface		RS232 /USB
Certificate	CE/ETL	CE/ETL

Fast Selection Charts

MASTECH®

LASER DISTANCE METERS



Model	MS6404	MS6406	MS6408	MS64100
Page	129	129	129	129
Auto Power Off	•	•	•	•
Distance	0.05~40m	0.05~60m	0.05~80m	0.05~100m
Accuracy	±2.0mm	±2.0mm	±2.0mm	±1.5mm
Area & Volume	•	•	•	•
Pythagorean proposition measurement	•	•	•	•
Unit (meter / Inch / feet)	•	•	•	•
Backlight	•	•	•	•
Foor Level	•	•	•	•
Laser target point	•	•	•	•
Data Logging	30 groups	30 groups	30 groups	99 groups
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL

TACHOMETERS



Model	MS6208A	MS6208B
Page	130	130
Contact	50~19999	
Non-Contact measurement		50~99999RPM
Measuring Distance		50~250mm
Auto Power Off	•	•
MAX/MIN	•	•
Data Hold	•	•
Backlight	•	•
Unit Selection	•	
Data Logging	100 Groups	100 Groups
Certificate	CE/ETL	CE/ETL

MOISTURE TESTERS



Model	MS6900A
Page	131
Range	Wood , Brick, Plaster …
Testing Depth	50mm
Object moisture	0~60%
Ambient TEMP	-10~50℃ 14~122℉
Sampling Rate	240mS
MAX/MIN	•
Unit Selection	WB, TD, ℃, ℉, %RH
Auxiliary Verification	•
Data Hold	•
Certificate	CE/ETL

GAS DETECTORS



Model	MS6310
Page	132
Alarm at level	10%~40%
Response Time	2 seconds
Warm up time	2 Minutes
Easy to Identify	•
Pinpoint Gas Leaks	•
Portable	•
High Sensitivity	•
Resume Original measurement	State after 7~10 min in clear air
Gas Detecred	Natural gas, Methance, Ethane, Propane
Certificate	CE/ETL

MULTIFUNCTION ENVIRONMENTAL METER



Model		MS6300
Page		133
Auto Ranging		•
Auto Power Off		•
Temperature		-10~60℃
Humidity		20~80%RH
Sound level		30~130dB
Illuminance		50000Lux
Wind Speed	m/s	0.5~20
	km/h	1.8~72
	FPM	100~4000
	Knots	0.9~38.9
AirFlow [CMM]		0~999900
AirFlow [CFM]		0~999900
A / C Weighting		•
MAX/MIN/AVG/DIF		•
Data Hold		•
Backlight		•
Certificate		CE/ETL

PROCESS CALIBRATORS

- CAT II
- CAT III
- CAT IV



Model	MS7220	MS7221	MS7212
Page	135	136	137
Safety Rating			CAT II 600V
Auto Ranging			•
DC Voltage	-10~75mV	100mV / 10V	300V
AC Voltage			300V
DC Current		0~24mA	400mA
AC Current			400mA
Resistance			400kΩ
Frequency			30kHz
Themocouple Type	K.J.T.E.R.S.B.N		
Temperature	-250~1800℃ -418~3272℉		-50~1300℃
MAX/MIN/AVG			•
Backlight			•
Data Hold			•
Interface			USB / RS232
Certificate	CE/ETL	CE/ETL	

PHASE ROTATION TESTERS

- CAT II
- CAT III
- CAT IV



Model	MS5900	MS5901
Page	139	139
Safety Rating	CAT III 600V	CAT III 600V
AC Voltage	400V	400V
Frequency	400Hz	400Hz
Motor & Phase Rotation Indicator	•	•
Certificate		CE/ETL

Fast Selection Charts

LCR METERS

	R, C	R.C.L	C	C.L	USB Connection
					
Model	MS8910	MS8911	MS6013	MY6243	MS5308
Page	141	142	143	143	144
Auto Ranging	•	•			
Auto Power Off	•	•			
Resistance	300Ω/30MΩ	60Ω/20MΩ			20Ω/200MΩ
Capacitance	3nF/30mF	600pF/6mF	200pF/20mF	2nF/200μF	200pF/20mF
inductance		600μH/200H		2mH~2H	200μH~20kH
Diode	•				
Continuity Buzzer	•				
Auto Scanning	•	•			
Zero Adjustment			•		
LCR / DCR		•			•
Data Hold	•	•			•
Backlight					•
Relative Measurement					•
Interface					RS232
Certificate	CE/ETL	CE/ETL	CE/ETL	CE/ETL	CE/ETL

CIRCUIT ANALYZERS

- CAT II
- CAT III
- CAT IV

	190V	375V
		
Model	MS5908A	MS5908C
Page	147	147
Safety Rating	CAT III 300V	CAT III 300V
AC Voltage	190V	375V
Frequency	45~65Hz	45~65Hz
Motor & Phase Rotation Indicator		
Voltage Drop current	12/15/20A	5/8/10A
Impedance measurement	•	•
Loop Resistance measurement		
GFCI Test	•	•
RCD Test	•	•
Data Hold	•	•
Backlight	•	•
Certificate	CE/ETL	CE/ETL

Electrical Safety

Earth resistance testers | Insulation resistance testers | PAT testers





EARTH RESISTANCE CLAMP METER

EARTH RESISTANCE: 0.01-1200Ω

CURRENT: 100mA-20A

■ MS2301

MS2301

Specifications	Range	Resolution	Accuracy
Earth Resistance	0.01Ω~0.999Ω	0.001Ω	±(1.5%+0.01Ω)
	1Ω~9.99Ω	0.01Ω	±(1.5%+0.3Ω)
	10Ω~99.9Ω	0.1Ω	±(3.0%+0.3Ω)
	100Ω~199.9Ω	1Ω	±(5.0%+3Ω)
	200Ω~400Ω	5Ω	±(6.0%+5Ω)
	400Ω~500Ω	10Ω	±(10%+10Ω)
	500Ω~1200Ω	20Ω	approx. 20%
Current	100mA	0.1mA	±(2.5%+1mA)
	300mA	0.3mA	±(2.5%+2mA)
	1A	0.001A	±(2.5%+0.003A)
	3A	0.003A	±(2.5%+0.01A)
	10A	0.01A	±(2.5%+0.03A)
	20A	0.03A	±(2.5%+0.05A)
Features			
Display	counts		9999
Jaw Opening	45mmx32mm/1.8"x1.3"		•
Auto Ranging	Auto		•
Test Voltage	3700V		•
Logging and Recall	99 groups		•
Alarm Limit Setting	Setting Alarm Threshold in 1~100Ω		•
LBD	Low Battery Display		•
Buzzer ON Symbol			•
Data Hold			•
General			
Power Supply	1×9V Alkaline Battery		
Product Size	276mm×104mm×54mm/10.8"×4.33"×2.1"		
Product Weight	1050g/2.31lb		
Certificate	RoHS		
Safety Rating	CAT Ⅲ 150V		

CAT III 150V · RoHS · PATENTED

Accesories included:

- Calibration Loop of Resistance (1Ω/5Ω/10Ω)
- Carry Case
- Battery and User's Manual

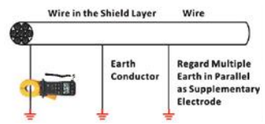
Electric Power Maintainance



Testing transmition lines



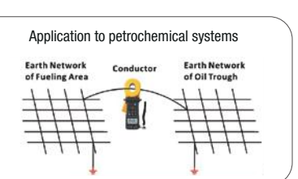
Application to telecommunications



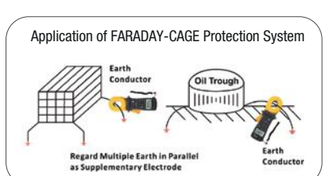
Testing Earth Resistance of Lighting Rod



Application to petrochemical systems



Application of FARADAY-CAGE Protection System



EARTH RESISTANCE TESTER

VOLTAGE: 0-200V

EARTH RESISTANCE: 0.01-4000Ω

■ MS2302





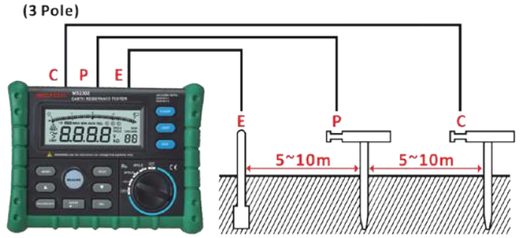
MS2302

Specifications	Range	Resolution	Accuracy
Earth Ground Resistance	0~29.99Ω	0.01Ω	±(2%+6)
	30~99.9Ω	0.1Ω	±(3%+3)
	100~999Ω	1Ω	±(3%+3)
	1.00~4.00kΩ	10Ω	±(3%+3)
Measuring Voltage to Earth	AC 0~200V(50Hz/60Hz)	0.01V	±(2%+4)
Features			
Auto Ranging	Auto and Manual		•
APO	Auto Power Off		•
Segments Bar Graph			•
MAX/MIN/AVG			•
Continuity Test			•
REL	Relative Measurement		•
Data Logging	99 groups		•
Display Backlight			•
LBD	Low Battery Display		•
General			
Power Supply	6×1.5V AA Batteries		
Product Size	330mm×265mm×125mm/13"×10.4"×4.9"		
Product Weight	900g/1.98lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 300V		

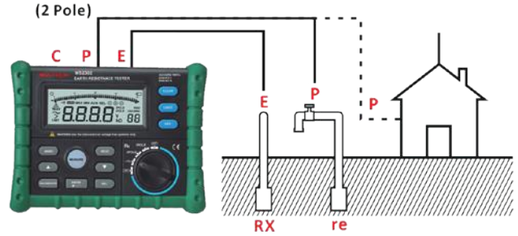
CAT III 300V · CE · ETL SEMKO US Intertek

RoHS · PATENTED

◆ Connect the test leads to the meter as follows (3 Pole)



◆ Test Connection Diagram (2 Pole)



Accesories included:





MS2306

ADVANCED EARTH RESISTANCE TESTER

VOLTAGE: AC/DC 20V/48V

EARTH RESISTANCE: 20kΩ/300kΩ

- **MS2306**
- **MS2308**

With the latest technology in a small-sized, robust and easy-to-use instrument, this series of earthing resistance tester is mainly used to test the earthing resistance of transformer, lightning-proof system, high-voltage power tower and telecommunication equipments, etc., providing a perfect solution for the earthing resistance test.



MS2308



Accesories included:



CE ETL Intertek RoHS PATENTED

				MS2306	MS2308
Methods	**Specifications**	**Resolution**	**Accuracy**	**Range**	
3 Pole & 4 Pole Earthing-Resistance Test	Test Voltage: AC20/48V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Earthing-Resistance Test	0.001Ω	±(5%+10)	0.1Ω~20kΩ (94Hz/128Hz)	0.02Ω~300kΩ
Selective mode (3 pole+ ⊐⊏ /4 pole ⊐⊏)	Test Voltage: AC20/48V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Earthing-Resistance Test	0.001Ω	±(5%+10)		0.02Ω~20kΩ
Non-auxiliary-polar mode (⊐⊏)	Test Voltage: AC48V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Earthing-Resistance Test	0.001Ω	±(10%+10)		0.02Ω~150Ω
2 Pole R (AC)	Test Voltage: AC20V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Earthing-Resistance Test	0.001Ω	±(5%+10)	0.1Ω~20kΩ (94Hz/128Hz)	0.02Ω~300kΩ
2/4 Pole R (DC)	Test Voltage: DC20V Earthing-Resistance Test	0.001Ω	±(5%+10)		0.02Ω~3kΩ
Soil Resistivity ρ	Test Voltage: AC20/48V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Range: (kΩ·m)	0.001Ω	±(5%+10)	0.02~1000 (94Hz/128Hz)	0.02~1000
RK (Wire Compensation)	Test Voltage: AC20/48V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Range: 30Ω	0.001Ω	±(3%+10)	30Ω (94Hz/128Hz)	30Ω
Interfering Voltage/ Current/Frequency	Interfering Voltage: 1~50V DC/AC	0.1V	±(5%+5)	•	•
	Interfering Frequency: 16Hz~400Hz	1Hz	±(1%+10)	•	•
	Interfering Current: 20mA~2A	1mA	±(5%+5)		•
Short Circuit Current				≤100mA	≤250mA
Features					
Display	Digital/analog dual display; LCD with backlight			9999	
Apo	Auto Power Off			•	
Clock	To switch input-cursor position when changing date/time			•	
AVG	Indicator for averaged-value measurement			•	
RK	Compensation Resistance			•	
Limit	Limit Value			•	
🔔	Alarming indicator for limit-value measurement			•	
🔋	Battery capacity indicator			•	
B.Light	Display Backlight			•	
Length	Testing length between resistivity testing point			•	
Data Storage	100 groups measurement can be memorized			•	
General					
Power supply	6XLR14 alkaline(2#); rated voltage: 6×1.5V				
	Recharge Battery: NI~MH Recharge Battery, 7.2V				
	Charger: Input voltage: 100V~240V; Frequency: 50Hz~60Hz; Output Voltage: 12VDC 3A				
Product Size	284mm×230mm×125mm/11.2"×9.1"×4.9"				
Product Weight	2.5kg/5.5lb				
Certificate	CE/ETL/RoHS				



CAT II 1000V | CAT III 600V | RoHS

Accesories included:



DIGITAL INSULATION TESTER

MEASURED VOLTAGE: DC 1000V, AC 700V

TEST VOLTAGE: DC 1000V

■ MS5201

Specifications	Range	Resolution	MS5201 Accuracy
AC Voltage (40~400Hz)	700V	1V	±(1.2%+5)
DC Voltage	1000V	1V	±(0.8%+3)
Resistance	200Ω @1mA	0.1Ω	±(1.0%+3)
Insulation Test Voltage	**Resistance Range**		**Accuracy**
DC 250V ±10%	200MΩ		±(3%+5)
DC 500V ±10%	200MΩ		±(3%+5)
DC1000V ±10%	50~1000MΩ		±(3%+5)
	1000~2000MΩ		±(5%+5)
Output Short Circuit Current	≤2.5mA		
Features			
Display	counts		2000
Continuity Buzzer	<50Ω		•
Data Hold			•
LBD	Low Battery Display		•
LOCK	Constant Measuring Lock		•
General			
Power Supply	6×1.5V AA Batteries		
Product Size	192mm×122mm×55mm/7.48"×4.7"×2.2"		
Product Weight	545g/1.3lb		
Certificate	RoHS		
Safety Rating	CAT II 1000V/CAT III 600V		



DIGITAL INSULATION TESTER

MEASURED VOLTAGE: DC 1000V / AC 750V

TEST VOLTAGE: DC 1000V

■ MS5203

Output Voltage	Range	Resolution	Test Current	MS5203 Accuracy
50V (0~20%)	0~20MΩ	0.01MΩ	1mA @50k	±(3%+5)
	20~50MΩ	0.1MΩ		
100V (0~20%)	0~20MΩ	0.01MΩ	1mA @100k	±(3%+5)
	20~100MΩ	0.1MΩ		
250V (0~20%)	0~20MΩ	0.01MΩ	1mA @250k	±(3%+5)
	20~200MΩ	0.1MΩ		
	200~250MΩ	1MΩ		
500V (0~20%)	0~20MΩ	0.01MΩ	1mA @500k	±(3%+5)
	20~200MΩ	0.1MΩ		
	200~500MΩ	1MΩ		
1000V (0~20%)	0~200MΩ	0.1MΩ	1mA @1000k	±(3%+5)
	200~1000MΩ	1MΩ		
	1.00~5.00GΩ	0.01GΩ		±(5%+10)
	5.00~10.00GΩ	0.01GΩ		±(10%+20)
DC Voltage Test	200V/1000V	0.1V/1V		±(0.5%+5)
AC Voltage Test	200V/750V	0.1V/1V		±(1.5%+5)
Resistance/	20Ω/200Ω	0.01/0.1Ω	1mA	±(1%+5)
Continuity Test	0.01~200Ω		1mA	±(0.5%)
Features				
APO	Auto Power Off			•
MIN/MAX/AVG				•
COMP	Compare function			•
TIMER				•
MEMO	Storage function			•
DAR/PASS				•
Backlight				•
REL	Relative Measurement			•
Data Hold	LOCK			•
LBD	Low Battery Display			•
General				
Power Supply	6×1.5V AA Batteries			
Product Size	200mm×155mm×76mm/7.6"×5.9"×2.95"			
Product Weight	900g/1.98lb			
Certificate	CE/ETL/RoHS			
Safety Rating	CAT III 1000V/CAT IV 600V			





CAT III 1000V | CAT IV 600V | CE

Intertek | RoHS | PATENTED

Accesories included:

- Test Leads
- Test Clips
- Wrapping Bag
- Battery and User's Manual





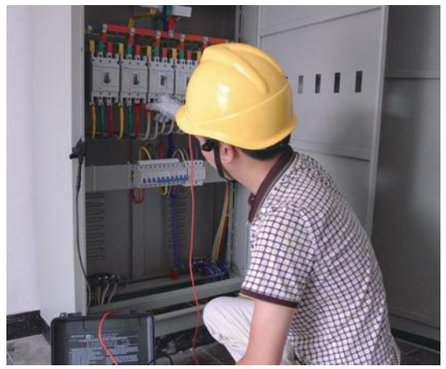
ADVANCED HIGH VOLTAGE INSULATION TESTER

MEASURED VOLTAGE:
DC 50-1000V
AC 50-750V

TEST VOLTAGE:
DC 5000V

■ MS5215

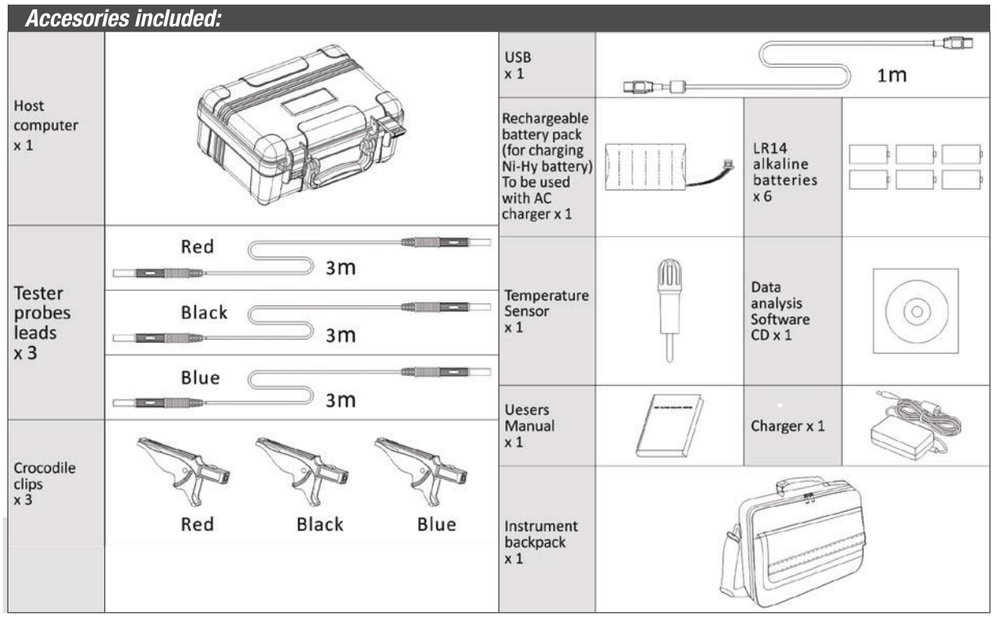
The MS5215 is the simplest unit available in the Mastech Advanced line of insulation resistance testers. The unit is capable of testing insulation resistance up to 5kV output DC voltage and 5TΩ resistance. The MS5215 comes standard with a range of new features and design updates which make it easy to use daily in professional settings.



CAT III 1000V CAT IV 600V CE

Intertek RoHS PATENTED

Accesories included:



MS5215

Insulation		
Operating Voltage	Measuring Range	Accuracy
250V DC	0.01MΩ~2.5GΩ	±(5%+5)
	2.51GΩ~250GΩ	±(20%+10)
500V DC	0.01MΩ~5.0GΩ	±(5%+5)
	5.01GΩ~500GΩ	±(20%+10)
1000V DC	0.01MΩ~10GΩ	±(5%+5)
	10.01GΩ~500GΩ	±(20%+10)
	501GΩ~999GΩ	±(30%+20)
2.5KV DC	0.01MΩ~25GΩ	±(5%+5)
	25.1GΩ~500GΩ	±(20%+10)
	501GΩ~999GΩ	±(30%+20)
	1TΩ~2.5TΩ	±(30%+40)
5KV DC	0.01MΩ~50GΩ	±(5%+5)
	50.1GΩ~500GΩ	±(20%+10)
	501GΩ~999GΩ	±(30%+20)
	1TΩ~5TΩ	±(30%+40)

Leakage Current		
Range	Measuring Range	Accuracy
10nA	1.00nA~9.99nA	±(15%+1nA)
100nA	9.0nA~99.9nA	±(15%+5)
1000nA	100nA~999nA	±(2.5%+5)
10μA	0.90μA~9.99μA	
100μA	9.0μA~99.9μA	
1000μA	90μA~999μA	
3mA	0.90mA~3.00mA	

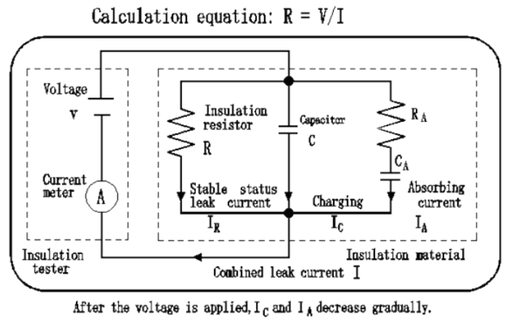
Resistance		
Range of insulation	Range of humidity	Range of temperature
0Ω~100MΩ	<85% RH	23℃ ±5℃ 73℉ ±9℉
101Ω~20GΩ	<75% RH	
21GΩ~500GΩ	<65% RH	
501GΩ~5TΩ	<55% RH	

Voltage		
Test Mode	DC Voltage	AC Voltage
Test Range	±(50V~1000V)	±50V~750V (50Hz~60Hz)
Precision error	±(5%+5)	±(5%+5)
Input Resistance	Approx. 10MΩ	Approx. 10MΩ

Temperature	
Measuring Range	Measuring Precision Accuracy
-10℃~0℃	±1.5℃
0℃~40℃	±2.0℃
40℃~70℃	±1.5℃

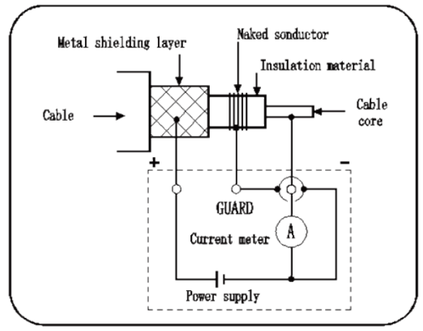
General	
Power Supply	6×Lr14(2#) Batteries, or 6×1.2V AA Batteries (Charger: Input Voltage 100V~240V)
Product Size	284mm×230mm×125mm/11.2"×9.1"×4.9"
Product Weight	2426g/5.34lb
Certificate	CE/ETL/RoHS
Safety Rating	CAT Ⅲ 1000V/CAT Ⅳ 600V

Insulation Resistance Test



After the voltage is applied, I_C and I_A decrease gradually.

Cable Test







CAT III 1000V · CAT IV 600V · CE · Intertek · RoHS · PATENTED

Accesories included:

- Test Leads
- Test Clips
- Wrapping Bag
- Battery and User's Manual



DIGITAL INSULATION TESTER

MEASURED VOLTAGE: DC 1000V / AC 750V

TEST VOLTAGE: DC 2500V

■ **MS5205**

MS5205

Output Voltage	Range	Resolution	Test Current	Accuracy
250V (0~20%)	0~20MΩ	0.01MΩ	1mA @250k	±(3%+5)
	20~200MΩ	0.1MΩ		
	200~250MΩ	1MΩ		
500V (0~20%)	0~20MΩ	0.01MΩ	1mA @500k	±(3%+5)
	20~200MΩ	0.1MΩ		
	200~500MΩ	1MΩ		
1000V (0~20%)	0~20MΩ	0.01MΩ	1mA @1000k	±(3%+5)
	20~200MΩ	0.1MΩ		
	200~1000MΩ	1MΩ		
2500V (0~20%)	0~20MΩ	0.01MΩ		±(3%+5)
	20MΩ~200MΩ	0.1MΩ		
	200MΩ~2000MΩ	1MΩ		
	2000MΩ~20GΩ	0.01GΩ		±(5%+0.2GΩ)
	20GΩ~100GΩ	0.1GΩ		±(10%+2GΩ)
DC Voltage Test	200V/1000V	0.1V/1V		±(0.5%+5)
AC Voltage Test	200V/750V (50~60Hz)	0.1V/1V		±(1.5%+5)
Resistance	20Ω	0.01Ω	1mA	±(1%+5)
	200Ω	0.1Ω		±(1%+5)
Features				
APO	Auto Power Off			•
LOCK				•
MIN/MAX/AVG				•
COMP	Compare function			•
TIMER	Timer function			•
MEMO	Storage function			•
DAR				•
PASS				•
Backlight				•
REL	Relative Measurement			•
Data Hold				•
LBD	Low Battery Display			•
General				
Power Supply	8×1.5V AA Batteries			
Product Size	180mm×140mm×65mm/7.1"×5.5"×2.56"			
Product Weight	900g/1.98lb			
Certificate	CE/ETL/RoHS			
Safety Rating	CAT Ⅲ 1000V/CAT Ⅳ 600V			

PAT TESTER

-Grounding -Insulation resistance
-Leakage current -Data logging

■ **MS5911**
■ **MS5911A**
■ **MS5911D**

Function	Technical parameters	Range	Accuracy
Grounding performance	Test current >200mA (R<2Ω) Test voltage 5VDC, Test time 5S	0Ω~19.99Ω	±5%+3
Insulation resistance	Test voltage 500VDC Test current> 1mA (R = 500kΩ) Test time 5S	0.2MΩ~19.99MΩ	±5%+3
	Test voltage 250VDC Test current> 1mA (R = 250kΩ) Test time 5S	0.2MΩ~19.99MΩ	±5%+3
Leakage current	Test voltage 50V rms / 50Hz Test time 5S	0.10mA~10.50mA	±5%+3
Features			
APO	Auto power off		•
Data Logging	300 groups		•
Safety CLASS Ⅰ	Grounding / Insulation resistance / Leakage current		•
Safety CLASS Ⅱ	Insulation resistance / Leakage current		•
Cord test	Grounding / Insulation resistance / Leakage current		•
Polarity test			•
Power socket test			•
LBD	Low battery detection		•
Backlight			•
General			
Power Supply	DV12V or 8×1.5V AA Batteries		
Product Size	204mm×155mm×76mm/7.8''×6.1''×3''		
Product Weight	1270g/2.8lb		
Certificate	MS5911A: RoHS / MS5911&MS5911D: CE/RoHS		
Safety Rating	CAT Ⅱ 300V		

MS5911



MS5911A



MS5911D







CAT II 300V · CE · RoHS

Accesories included:

- Main test cord
- Alligator clip test cord
- Probe
- Rugged padded carrying case
- Battery and user's manual
- DC power adapter (optional)

MASTECH®
BUILD TO PRECISION





PAT TESTER QWERTY KEYBOARD

-Grounding
-Leakage current
-Insulation resistance
-Data logging

- **MS5922A**
- **MS5922E**
- **MS5922D**

Function	Technical parameters	Range	Accuracy
Grounding performance	Test current >200mA (R<2Ω) Test voltage 5VDC, Test time 5S	0Ω~19.99Ω	±5%+3
Insulation resistance	Test voltage 500VDC Test current> 1mA (R = 500kΩ) Test time 5S	0.2MΩ~19.99MΩ	±5%+3
	Test voltage 250VDC Test current> 1mA (R = 250kΩ) Test time 5S	0.2MΩ~19.99MΩ	±5%+3
Leakage current	Test voltage 50V rms / 50Hz Test time 5S	0.10mA~10.50mA	±5%+3
Features			
APO	Auto power off		•
Data Logging	300 groups		•
Safety CLASS I	Grounding / Insulation resistance / Leakage current		•
Safety CLASS II	Insulation resistance / Leakage current		•
Cord test	Grounding / Insulation resistance / Leakage current		•
Polarity test			•
Power socket test			•
LBD	Low battery detection		•
Backlight			•
Built-in Keyboard			•
General			
Power Supply	DV12V or 8×1.5V AA Batteries		
Product Size	204mm×155mm×76mm/7.8''×6.1''×3''		
Product Weight	1270g/2.8lb		
Certificate	MS5922A: RoHS / MS5922E&MS5922D: CE/RoHS		
Safety Rating	CAT II 300V		

CAT II 300V

Accesories included:

- Main test cord
- Alligator clip test cord
- Probe
- Rugged padded carrying case
- Battery and user's manual
- DC power adapter (optional)

MS5922E



MS5922A



MS5922D



Digital Multimeters

Pocket size | Manual range | Auto range
Special application | Bench type





DIGITAL MULTIMETER

MAIN FEATURES:
- Display 2000 counts
- Diode Open Voltage 3.0V

VOLTAGE:	CURRENT:
DC 600V	DC 400mA
AC 600V	AC 400mA

- **M300C**
- **M320**

Specifications	Range	Resolution	Accuracy (M300C)	Accuracy (M320)
DC Voltage	2V	1mV	±(0.5%+1)	
	20V/200V/300V	10mV/100mV/1V	±(0.8%+1)	
	400mV/4V/40V/400V	0.1mV/1mV/10mV/100mV		±(0.5%+3)
	600V	1V		±(0.8%+3)
AC Voltage	200V/300V	100mV/1V	±(1.2%+10)	
	4V/40V/400V	1mV/10mV/100mV		±(0.8%+4)
	600V	1V		±(1.0%+4)
DC Current	200mA	0.1mA	±(2.0%+2)	
	40mA/400mA	0.01mA/0.1mA		±(2.0%+3)
AC Current	40mA/400mA	0.01mA/0.1mA		±(3.0%+4)
Resistance	2kΩ/20kΩ/200kΩ/2MΩ	1Ω/10Ω/100Ω/1kΩ	±(1.0%+2)	
	400Ω/4kΩ/40kΩ/	0.1Ω/1Ω/10Ω/		±(1.0%+3)
	400kΩ/4MΩ	0.1kΩ/1kΩ		
	40MΩ	10kΩ		±(2.0%+4)
Capacitance	4nF	1pF		±(5.0%+10)
	40nF	10pF		±(4.0%+5)
	400nF/4μF/40μF/100μF	/0.1nF/1nF/10nF/0.1μF		±(3.0%+3)
Frequency	10Hz/100Hz/1kHz/ 10kHz/100kHz	0.01Hz/0.1Hz/1Hz/ 10Hz/0.1kHz		±(0.5%+3)
Features				
Display counts			2000	4000
Auto Power Off				●
Auto Ranging				●
Diode	Open Voltage		3.0V	1.5V
Continuity Buzzer	<50±20Ω		●	●
Data Hold				●
LBD	Low Battery Display		●	●
General				
Power Supply	M300C: 1×12V A23S Battery M320: 2×1.5V 357A(LR44) Batteries			
Product Size	120mm×70mm×18mm/4.7"×2.75"×0.7"			
Product Weight	110g/0.23lb			
Certificate	CE/ETL/RoHS			
Safety Rating	M320 - CAT Ⅲ 300V/CAT Ⅱ 600V			

CAT II 600V CAT III 300V CE ETL Intertek RoHS

Accesories included:
- Battery and User's Manual



TRMS DIGITAL MULTIMETER

MAIN FEATURES:
- Display 6000 counts
- TRMS
- Auto Power Off
- Auto range

VOLTAGE:	CURRENT:
DC 600V	DC 600mA
AC 600V	AC 600mA

- **MS8333A**

Specifications	Range	Resolution	Accuracy (MS8333A)
DC Voltage	600mV/6V/60V/600V	0.1mV/0.001V/0.01V/0.1V	±(0.5%+3)
AC Voltage	6V/60V/600V	0.001V/0.01V/0.1V	±(1.0%+3)
DC Current	600μA/6000μA/60mA/600mA	0.1μA/1μA/0.01mA/0.1mA	±(1.0%+5)
AC Current	600μA/6000μA/60mA/600mA	0.1μA/1μA/0.01mA/0.1mA	±(1.8%+3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	0.1Ω/0.001kΩ/0.01kΩ/ 0.1kΩ/0.001MΩ	±(0.7%+3)
	60MΩ	0.01MΩ	±(2.0%+3)
Capacitance	6nF/60nF/600nF/ 6uF/60uF/600uF	0.001nF/0.01nF/0.1nF/ 1nF/10nF/100nF	±(3.0%+8)
Frequency	10Hz/100Hz/1000Hz/10kHz	0.001Hz/0.01Hz/0.1Hz/1Hz	±(1.5% +15)
Duty Cycle	0.5%~99.9%	0.1%	±(2.0%+5)
Features			
Display Counts			6000
Auto range	Auto		●
APO	Auto Power Off		●
True RMS	For AC Voltage & AC Current		●
Continuity Buzzer	<50±20Ω		●
Diode	Open Voltage		4V
Data Hold			●
Display Backlight			●
LBD	Low Battery Display		●
NCV	Non-Contact Voltage Detector		●
Battery Tester	1.5V		●
General			
Power Supply	2×1.5V AAA Batteries		
Product Size	122mm×62mm×44mm/4.8''×2.44''×1.73''		
Product Weight	186g/0.4lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		



CAT III 600V CE ETL Intertek RoHS

Accesories included:
- Battery and User's Manual





CAT III 600V CE ETL Intertek RoHS

Accesories included:

- Test Leads
- Alligator Clips
- Battery and User's Manual

PEN-TYPE DIGITAL MULTIMETER

MAIN FEATURES:

- Display 2000 counts
- Auto & Manual Ranging
- Auto Power Off
- Diode Open Voltage 1.5V

VOLTAGE:
DC 600V
AC 600V

CURRENT:
DC 200mA
AC 200mA

■ MS8223A

		MS8223A	
Specifications	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V/600V	0.1mV/1mV/20mV/0.1V/1V	±(0.7%+2)
AC Voltage	200mV/2V/20V/200V	0.1mV/1mV/20mV/0.1V	±(0.8%+3)
	600V	1V	±(1.0%+3)
Resistance	200Ω	0.1Ω	±(1.0%+3)
	2kΩ/20kΩ/200kΩ/2MΩ	1Ω/10Ω/0.1kΩ/1kΩ	±(1.0%+1)
	20MΩ	0.01MΩ	±(1.0%+5)
DC Current	20mA/200mA	20μA/0.1mA	±(1.5%+3)
AC Current	20mA/200mA	20μA/0.1mA	±(2.0%+3)
Features			
Display Counts			2000
Auto Ranging	Auto & Manual		•
APO	Auto Power Off		•
Diode	Open Voltage		1.5V
MAX	Maximum Value Hold		•
Data Hold			•
LBD	Low Battery Display		•
Continuity Buzzer			<50Ω
NCV	Detection: >50V AC		•
Logic Level Test	High / Low level		•
Work Light			•
Housing	Double Molding		•
General			
Power Supply	2×1.5V AAA Batteries		
Model number	MS8223A		
Product Size	225×52×40mm		
Product Weight	138g/0.3lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		

DIGITAL MULTIMETER

MAIN FEATURES:

- Resistance
- Low battery indicator
- Diode and continuity

VOLTAGE:
DC 600V
AC 600 V

CURRENT:
DC 10A

■ MAS830
■ MAS830L

		MAS830	MAS830L
Specifications	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.5%+3)
	600V	1V	±(0.8%+5)
AC Voltage	200V/600V	0.1V/1V	±(1.2%+10)
DC Current	20μA	0.01μA	±(1.0%+3)
	200μA/2mA	0.1μA/1μA	±(1.0%+3)
	20mA	10μA	±(1.0%+5)
	200mA	0.1mA	±(1.5%+5)
	10A	10mA	±(3.0%+10)
Resistance	200Ω	0.1Ω	±(0.8%+5)
	2kΩ/20kΩ/200kΩ	1Ω/10Ω/0.1kΩ	±(0.8%+2)
	2MΩ	1kΩ	±(1.0%+5)
Features			
Display Counts		2000	
Diode	Open Voltage	3.0V	
Data Hold		•	
LBD	Low Battery Display	•	
Continuity Buzzer	<70 ±30Ω	•	•
Display Backlight			•
General			
Power Supply	1×9V 6F22 NEDA 1604 Battery		
Product Size	145mm×76mm×40mm/5.7"×3"×1.57"		
Product Weight	202g/0.44lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		



CAT III 600V CE ETL Intertek RoHS

Accesories included:

- Test Leads
- Battery and User's Manual



DIGITAL MULTIMETER WITH TEMPERATURE

MAS838

MAIN FEATURES:
- Display 2000 counts
- Continuity Buzzer <70 ±30Ω
- Diode Open Voltage 3.0V
- Data Hold

VOLTAGE:
DC 600V
AC 600V

CURRENT:
DC 10A

MAS838

Specifications	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.5%+3)
	600V	1V	±(0.8%+5)
AC Voltage	200V/600V	0.1V/1V	±(1.2%+10)
DC Current	200μA/2mA	0.1μA/1μA	±(1.0%+3)
	20mA	10μA	±(1.0%+5)
	200mA	0.1mA	±(1.5%+5)
	10A	10mA	±(3.0%+10)
Resistance	200Ω	0.1Ω	±(0.8%+5)
	2kΩ/20kΩ/200kΩ	1Ω/10Ω/0.1kΩ	±(0.8%+2)
	2MΩ	1kΩ	±(1.0%+5)
Temperature	-20℃~0℃	1 °C	±(10%+2)
	0℃~400℃	1 °C	±(1.0%+2)
	400℃~1000℃	1 °C	±(2.0%)
Features			
Display Counts			2000
Diode	Open Voltage		3.0V
Continuity Buzzer	<70 ±30Ω		•
Data Hold			•
LBD	Low Battery Display		•
General			
Power Supply	1×9V 6F22 NEDA 1604 Battery		
Product Size	145mm×76mm×40mm/5.7"×3"×1.57"		
Product Weight	202g/0.44lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		

CAT III 600V

Accesories included:
- Test Leads
- K Type Thermocouple
- Battery and User's Manual



DIGITAL MULTIMETER WITH BATTERY TEST

MS8238

MAIN FEATURES:
- Display 2000 counts
- Diode Open Voltage 3.0V
- Continuity Buzzer <50Ω
- Data Hold

VOLTAGE:
DC 600V
AC 600 V

CURRENT:
DC 10A

MS8238

Specifications	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.5%+2)
	600V	1V	±(0.8%+5)
AC Voltage	200V/600V	0.1V/1V	±(1.0%+5)
DC Current	2mA/20mA/200mA	1μA/10μA/0.1mA	±(0.8%+3)
	10A	10mA	±(2.5%+3)
Resistance	200Ω/2kΩ/20kΩ	0.1Ω/1Ω/10Ω	±(0.8%+4)
	200kΩ/2MΩ	0.1kΩ/1kΩ	±(0.8%+4)
Features			
Display Counts			2000
Diode	Open Voltage		3.0V
Continuity Buzzer			<50Ω
Data Hold			•
LBD	Low Battery Display		•
Battery Test	1.5V/9V/12V		•
General			
Power Supply	1×9V 6F22 NEDA 1604 Battery		
Product Size	148mm×73.5mm×50mm/5.8"×2.9"×1.96"		
Product Weight	232g/0.51lb		
Certificate	RoHS		
Safety Rating	CAT Ⅲ 600V		



CAT III 600V

Accesories included:
- Test Leads
- Battery and User's Manual

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DIGITAL MULTIMETER WITH NON-CONTACT VOLTAGE

MAIN FEATURES:
- Display 2000 counts
- Diode Open Voltage 3.0V
- Continuity Buzzer <60Ω
- Data Hold

VOLTAGE:
DC 600V
AC 600 V

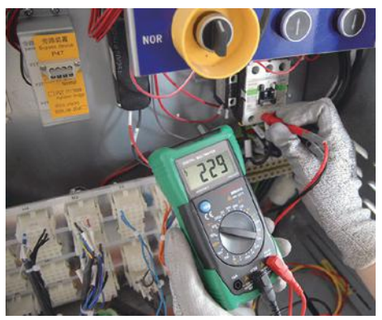
CURRENT:
DC 10A

- **MS8233B**
- **MS8233C**

Specifications	Range	Resolution	MS8233B Accuracy	MS8233C Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.5%+3)	
	600V	1V	±(0.5%+3)	
AC Voltage	200V	100mV	±(1.2%+10)	
	600V	1V	±(1.2%+10)	
DC Current	200μA/2000μA/20mA/200mA	0.1μA/1μA/10μA/0.1mA	±(1.0%+3)	
	10A	0.01A	±(3.0%+5)	
Resistance	200Ω/2kΩ/20kΩ/200kΩ	0.1Ω/1Ω/10Ω/0.1kΩ	±(0.8%+4)	
	2MΩ	1kΩ	±(0.8%+4)	
Temperature	-20°C~0°C / -4°F~32°F	1°C/1°F		±(10%+2)
	0°C~400°C / 33°F~752°F	1°C/1°F		±(1%+3)
	400°C~1000°C / 752°F~1832°F	1°C/1°F		±(2.0%)
Features				
Display Counts			2000	
Diode	Open Voltage		3.0V	
Continuity Buzzer			<60Ω	
Data Hold			•	
LBD	Low Battery Display		•	
Display Backlight			•	
NCV	Non-contact Voltage Detection		•	
General				
Power Supply	1×9V 6F22 Battery			
Product Size	140mm×67mm×30mm/5.5"×2.6"×1.2"			
Product Weight	112g/0.25lb			
Certificate	CE/ETL/RoHS			
Safety Rating	CAT III 600V			

CAT III 600V

Accesories included:
- Test Leads
- K type Thermocouple
- Battery and User's Manual



DIGITAL MULTIMETER

MAIN FEATURES:
- Display 2000 counts
- Auto Power Off
- Transistor hFE 0~1000
- Diode Open Voltage 3.0V

VOLTAGE:
DC 600V
AC 600 V

CURRENT:
DC 10A
AC 10A

- **MY70**
- **MY74**

Specifications	Range	Resolution	MY70 Accuracy	MY74 Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.5%+2)	±(0.5%+2)
	600V	1V	±(0.8%+2)	±(0.8%+2)
AC Voltage	200mV	0.1mV	±(1.2%+3)	
	2V/20V/200V	1mV/10mV/0.1V	±(0.8%+3)	±(0.8%+3)
	600V	1V	±(1.2%+3)	±(1.2%+3)
DC Current	20μA	0.01μA	±(2.0%+5)	
	200μA	0.1μA	±(0.8%+1)	
	2mA	1μA	±(0.8%+1)	±(0.8%+1)
	20mA	10μA	±(0.8%+1)	±(0.8%+1)
	200mA	0.1mA	±(1.5%+1)	±(1.5%+1)
	10A	0.01A	±(2.0%+5)	±(2.0%+5)
AC Current	20μA	0.01μA	±(2.0%+5)	
	200μA	0.1μA	±(1.0%+5)	
	2mA	1μA	±(1.0%+5)	
	20mA	10μA	±(1.0%+5)	±(1.0%+5)
	200mA	0.1mA	±(1.8%+5)	±(1.8%+5)
	10A	0.01A	±(3.0%+7)	±(3.0%+7)
Resistance	200Ω	0.1Ω	±(0.8%+3)	±(0.8%+3)
	2kΩ/20kΩ/200kΩ/2MΩ	1Ω/10Ω/0.1kΩ/1kΩ	±(0.8%+2)	±(0.8%+2)
	20MΩ	10kΩ	±(1.0%+2)	±(1.0%+2)
	200MΩ	0.1MΩ	±(6.0%+10)	±(6.0%+10)
Capacitance	2nF/20nF/200nF/2μF	1pF/10pF/0.1nF/1nF		±(4.0%+3)
	100μF	0.1μF		±(6.0%+10)
Frequency	20kHz	0.01kHz		±(2.0%+5)
Temperature	-20°C~0°C	1°C		±(5.0%+4)
	1°C~400°C	1°C		±(2.0%+3)
	401°C~1000°C	1°C		±(2.0%+5)
Features				
Display Counts			2000	
APO	Auto Power Off		•	
Transistor hFE	0~1000		•	
Diode	Open Voltage		3.0V	
Continuity Buzzer	<50Ω		•	
Data Hold			•	
LBD	Low Battery Display		•	
General				
Power Supply	1×9V 6F22 Battery			
Product Size	188mm×93mm×50mm/7.4"×3.7"×1.96"			
Product Weight	380g/0.84lb			
Certificate	CE/ETL/RoHS			
Safety Rating	CAT III 600V			



CAT III 600V

Accesories included:
- Test Leads
- K type Thermocouple (MY74)
- Multi-Function Socket
- Battery and User's Manual





DIGITAL MULTIMETER 20000 COUNTS

MAIN FEATURES:
- Display backlight, Work Light
- Diode and Continuity detection
- Relative measurement
- Data Hold, Max/Min hold

VOLTAGE:
DC 1000V
AC 1000 V

CURRENT:
DC 10A
AC 10A

■ MY75

MY75

Specifications	Range	Resolution	Accuracy
DC Voltage	200 mV	0.01mV	±(0.05%+3)
	2V/20V/200V	0.1mV/1mV/10mV	±(0.1%+3)
	600V	0.1V/1V	±(0.15%+3)
AC Voltage	2V	0.1Vm	±(0.5%+3)
	20V/200V	1mV/10mV	±(0.8%+10)
	600V	0.1V/1V	±(1.0%+15)
DC Current	2mA/20mA	0.1μA/1μA	±(0.5%+50)
	200mA	10μA	±(0.8%+50)
	10A	1mA/10mA	±(2.0%+10)
AC Current	2mA/20mA	0.1μA/1μA	±(0.8%+50)
	200mA	10μA	±(1.2%+50)
	10A	1mA/10mA	±(2.5%+10)
Resistance	200Ω	0.01Ω	±(0.5%+10)
	2kΩ	0.1Ω	±(0.3%+3)
	20kΩ/200kΩ/2MΩ/20MΩ	1Ω/10Ω/0.1kΩ/1kΩ	±(0.3%+1)
	200MΩ	0.01MΩ	±(5.0%+10)
Capacitance	2μF/20μF/100μF/20nF/200nF	0.1nF/1nF/10nF/1pF/10pF	±(4.0%+20)
Frequency	20kHz	1Hz	±(1.5%+5)
Features			
Display Counts			20000
Diode	Open Voltage		3.0V
Continuity Buzzer			<60Ω
Data Hold			●
APO	Auto Power Off		●
Transistor hFE	0~1000		●
LBD	Low Battery Display		●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	188mm×93mm×50mm/7.4"×3.7"×1.96"		
Product Weight	380g/0.84lb ; MY78 420g/0.92lb		
Certificate	CE/ETL/RoHS		
Safety Rating	MS8233D: CAT II 600V / MS8233E: CAT III 600V		

Accesories included:
- Test Leads
- Multi-Function Socket
- Battery and User's Manual

DIGITAL MULTIMETER WITH INDUCTANCE

MAIN FEATURES:
- Display 2000 counts
- Auto Power Off
- Transistor hFE 0~1000
- Diode Open Voltage 3.0V

VOLTAGE:
DC 1000V
AC 750 V

CURRENT:
DC 10A
AC 10A

■ MS8269

MS8269

Specifications	Range	Resolution	Accuracy
DC Votage	200mV/2V/20V/200V	0.1mV/1mV/10mV/100mV	±(0.5%+1)
	1000V	1V	±(0.8%+2)
AC Votage	2V/20V/200V	1mV/10mV/100mV	±(0.8%+3)
	750V	1V	±(1.2%+3)
DC Current	200mA	0.1mA	±(1.5%+1)
	10A	10mA	±(2.0%+5)
AC Current	200mA	0.1mA	±(1.8%+3)
	10A	10mA	±(3.0%+7)
Resistance	200Ω	0.1Ω	±(0.8%+3)
	2kΩ/20kΩ/200kΩ/2MΩ	1Ω/10Ω/100Ω/1kΩ	±(0.8%+1)
	20MΩ	10kΩ	±(1.0%+2)
Capacitance	20nF/200nF/2μF	10pF/0.1nF/1nF	±(4.0%+8)
	200μF	0.1μF	±(4.0%+15)
Inductance	20mH/200mH/2H/20H	10μH/0.1mH/1mH/10mH	±(3.0%+8)
Temperature	-20℃~0℃	1℃	±(5.0%+4)
	1℃~400℃	1℃	±(1.0%+3)
	401℃~1000℃	1℃	±(2.0%)
Features			
Display Counts			2000
APO	Auto Power Off		●
Transistor hFE	0~1000		●
Diode	Open Voltage		3.0V
Continuity Buzzer			<70Ω
Data Hold			●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	195mm×92mm×55mm/7.7"×3.6"×2.2"		
Product Weight	380g/0.83lb		
Certificate	RoHS		
Safety Rating	CATII 1000V/CATIII 600V		



Accesories included:
- Test Leads
- Multi-Function Socket
- Battery and User's Manual
- K type thermocouple





DIGITAL MULTIMETER WITH NON-CONTACT VOLTAGE

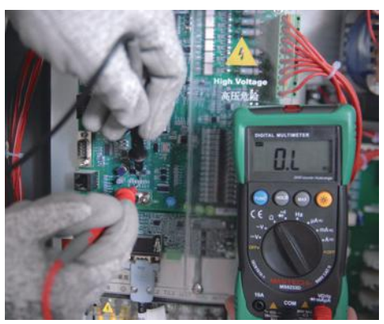
MAIN FEATURES:
- Display 2000 counts
- Auto & Manual Ranging
- Diode Open Voltage 1.5V
- Continuity Buzzer <60Ω

VOLTAGE:	CURRENT:
DC 1000V	DC 10A
AC 1000 V	AC 10A

- **MS8233D**
- **MS8233E**

Specifications	Range	Resolution	MS8233D Accuracy	MS8233E Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.5%+2)	
	600V	1V	±(0.8%+2)	
AC Voltage	2V/20V/200V	1mV/10mV/0.1V	±(0.9%+3)	
	600V	1V	±(1.2%+3)	
DC Current	200μA/2000μA/20mA/200mA	0.1μA/1μA/10μA/0.1mA	±(1.5%+4)	
	10A	0.01A	±(3.0%+5)	±(1.5%+3)
AC Current	200μA/2000μA/20mA/200mA	0.1μA/1μA/10μA/0.1mA	±(1.5%+4)	
	10A	0.01A	±(3.0%+5)	±(1.5%+4)
Resistance	200Ω/2kΩ/20kΩ/200kΩ	0.1Ω/1Ω/10Ω/0.1kΩ	±(0.8%+2)	
	2MΩ/20MΩ	1kΩ/20kΩ	±(1.0%+2)	
Frequency	0~20kHz	10Hz	±(1.5%+5)	
Temperature	-20°C~0°C / -4°F~32°F	1°C/1°F		±(5.0%+3)
	0°C~400°C / 33°F~752°F	1°C/1°F		±(2.0%+3)
	400°C~1000°C / 752°F~1832°F	1°C/1°F		±(3.0%+3)
Features				
Display Counts			2000	
Autoranging	Auto & Manual		●	
Diode	Open Voltage		1.5V	
Continuity Buzzer			<60Ω	<70Ω
Data Hold			●	
APO	Auto Power Off		●	
NCV	Non-contact Voltage Detection		●	
MAX	Maximum Measurement		●	
Display Backlight			●	
LBD	Low Battery Display		●	
General				
Power Supply	1×9V 6F22 Battery			
Product Size	140mm×67mm×30mm/5.5"×2.6"×1.2"			
Product Weight	112g/0.25lb			
Certificate	MS8223D: RoHS MS8223E: CE/ETL/RoHS			
Safety Rating	CAT Ⅱ 600V			

Accesories included:
- Test Leads
- K Type Thermocouple
- Battery and User's Manual



DIGITAL MULTIMETER

MAIN FEATURES:
- Display 4000 Counts
- Auto & Manual Ranging
- Auto Power Off
- Diode Open Voltage 1.5V

VOLTAGE:	CURRENT:
DC 600V	DC 10A
AC 600 V	AC 10A

- **MS8239C**

Specifications	Range	Resolution	MS8239C Accuracy
DC Voltage	400mV/4V/40V/400V/600V	0.1mV/1mV/10mV/0.1V/1V	±(0.5%+3)
AC Voltage	4V/40V/400V/600V	1mV/10mV/0.1V/1V	±(1.2%+5)
DC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/0.01mA/0.1mA	±(1.0%+5)
	10A	0.01A	±(2.0%+10)
AC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/0.01mA/0.1mA	±(1.2%+5)
	10A	0.01A	±(2.5%+10)
Resistance	400Ω/4kΩ/40kΩ	0.1Ω/1Ω/10Ω	±(0.8%+5)
	400kΩ/4MΩ/40MΩ	0.1kΩ/1kΩ/10kΩ	±(0.8%+5)
Capacitance	5nF/50nF/500nF	1pF/10pF/0.1nF	±(3.0%+5)
	5μF/50μF/100μF	1nA/10nA/0.1μA	±(3.0%+5)
Frequency (V / A)	100Hz/1000Hz/10kHz	0.01Hz/0.1Hz/1Hz	±(1.5%+5)
Frequency (Hz/ Duty)	10Hz/100Hz/1000Hz/10kHz	0.001Hz/0.01Hz/0.1Hz/1Hz	±(1.5%+5)
	100kHz1000kHz/10MHz	10Hz/0.1kHz/1kHz	±(1.5%+5)
Duty Cycle	0.1%~99%	0.1%	±(2.0%+5)
Temperature	-20℃~1000℃/ -4℉~1832℉	1℃/1℉	±(3.0%+3)
Features			
Display Counts			4000
Auto Ranging	Auto & Manual		●
APO	Auto Power Off		●
Diode	Open Voltage		1.5V
Continuity Buzzer			<50±20Ω
Data Hold			●
Display Backlight			●
LBD	Low Battery Display		●
General			
Power Supply	2×1.5V AAA Batteries		
Product Size	150mm×74mm×41mm/5.9"×2.9"×1.6"		
Product Weight	202g/0.44lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CATⅢ 600V		



Accesories included:
- Test Leads
- K Type Thermocouple
- Battery and User's Manual

SMART



DIGITAL MULTIMETER SMART TECHNOLOGY

■ MS8301D

MAIN FEATURES:
- Display 6000 Counts
- Auto Power Off
- Auto range
- Dual Display

VOLTAGE:
DC 600V
AC 600V

MS8301D

Specifications	Range	Resolution	Accuracy
DC Voltage	6V/60V/600V	0.01V/0.1V/1V	±(0.5%+3)
AC Voltage	6V/60V/600V	0.01V/0.1V/1V	±(0.8%+5)
Resistance	2kΩ/20kΩ/200kΩ/2MΩ	0.001kΩ/0.01kΩ/0.1kΩ/0.001MΩ	±(0.8%+3)
	10MΩ	0.01MΩ	±(1.0%+5)
Frequency	60Hz/600Hz/3kHz	0.1Hz/1Hz/10Hz	±(1.0%+5)
Duty Cycle	10% ~ 90%	1%	±2.0%
Features			
Display Counts			6000
Auto range	Auto		●
APO	Auto Power Off		●
Dual Display			●
Continuity Buzzer	<40Ω		●
Data Hold			●
MAX/MIN			●
Display Backlight			●
LBD	Low Battery Display		●
NCV	Non-Contact Voltage Detector		●
General			
Power Supply	2×1.5V AAA Batteries		
Product Size	150mm×74mm×48mm/5.9''×2.9''×1.7''		
Product Weight	220g/0.48lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		

*For further information about SMART technology please check page 6.

CAT III 600V · CE · ETL Intertek · RoHS

Accesories included:
- Test Leads
- Battery and User's Manual



DIGITAL MULTIMETER

■ MS8250A

MAIN FEATURES:
- Display 4000 counts
- Auto Ranging
- Manual Ranging
- Auto Power Off

VOLTAGE:
DC 600V
AC 600V

CURRENT:
DC 10A
AC 10A

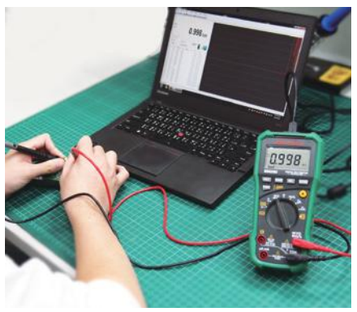
MS8250A

Specifications	Range	Resolution	Accuracy
DC Voltage	400mV	0.1mV	±(0.8%+3)
	4V/40V/400V/600V	1mV/10mV/0.1V/1V	±(0.5%+5)
AC Voltage	400mV	0.1mV	±(1.0%+5)
	4V/40V/400V	1mV/10mV/0.1V	±(0.8%+5)
	600V	1V	±(1.2%+3)
DC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/10μA/0.1mA	±(0.8%+2)
	10A	10mA	±(2.0%+5)
AC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/10μA/0.1mA	±(1.5%+2)
	10A	10mA	±(3.0%+5)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	0.1Ω/1Ω/10Ω/0.1kΩ/4kΩ	±(1.0%+5)
	40MΩ	10kΩ	±(1.2%+15)
Capacitance	40nF/400nF/4μF/40μF/100μF	10pF/0.1nF/1nF/10nF/0.1μF	±(3.0%+5)
Frequency	5Hz/50Hz/500Hz/5kHz	0.001Hz/0.01Hz/0.1Hz/1Hz	±(0.5%+2)
	50kHz/500kHz/5MHz	10Hz/0.1kHz/1kHz	±(0.5%+2)
Duty Cycle	0.1%~99.9%	0.1%	±(2.0%+5)
Features			
Display Counts			4000
Auto Ranging			●
Manual Ranging			●
APO	Auto Power Off		●
REL	Relative Measurement		●
NCV	Non-Contact Voltage Detector		●
Diode	Open Voltage		1.5V
Continuity Buzzer			<50±20Ω
Data Hold			●
LBD	Low Battery Display		●
Display Backlight			●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	175mm×86mm×52mm/6.89"×3.38"×2.04"		
Product Weight	372g/0.82lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅳ 600V		



CAT III 1000V · CAT IV 600V · CE · ETL Intertek · RoHS · PATENTED

Accesories included:
- Test Leads
- Battery and User's Manual





CAT III 1000V · CAT IV 600V · CE · Intertek · RoHS · PATENTED

DIGITAL MULTIMETER

■ MS8251A

MAIN FEATURES:
- Display 6600 counts
- Auto Ranging
- Manual Ranging
- Auto Power Off

VOLTAGE:	CURRENT:
DC 1000V	DC 10A
AC 1000V	AC 10A

MS8251A

Specifications	Range	Resolution	Accuracy
DC Voltage	660mV	0.1mV	±(0.8%+3)
	6.6V/66V/660V	1mV/10mV/0.1V	±(0.5%+5)
	1000V	1V	±(0.8%+3)
AC Voltage	660mV(40~60Hz)	0.1mV	±(1.5%+5)
	6.6V/66V(40~400Hz)	1mV/10mV	±(1.2%+5)
	660V/1000V(40~400Hz)	0.1V/1V	±(1.0%+3)
DC Current	660μA/6600μA/66mA/660mA	0.1μA/1μA/10μA/0.1mA	±(1.0%+5)
	10A	10mA	±(2.0%+5)
AC Current	660μA/6600μA/66mA/660mA	0.1μA/1μA/10μA/0.1mA	±(1.5%+5)
	10A	10mA	±(3.0%+5)
Resistance	660Ω/6.6kΩ/66kΩ/660kΩ/6.6MΩ	0.1Ω/1Ω/10Ω/100Ω/1kΩ	±(0.8%+5)
	66MΩ	0.1MΩ	±(1.5%+5)
Capacitance	6.6nF	1pF	±(4.0%+5)
	66nF/660nF/6.6μF/66μF/660μF	10pF/0.1nF/1nF/10nF/0.1μF	±(3.0%+3)
	6.6mF/66mF	1μF/10μF	±(4.0%+5)
Frequency (V Position)	66Hz/660Hz/6.6kHz/10kHz	0.01Hz/0.1Hz/1Hz/10Hz	±(1.5%+5)
Frequency (Hz Position)	66Hz/660Hz/6.6kHz/66kHz/ 660kHz/6.6MHz/66MHz	0.01Hz/0.1Hz/1Hz/10Hz 0.1kHz/1kHz/10kHz	±(1.5%+5)
Duty Cycle	1%~99.9%	0.1%	±(2.0%)
Temperature	0~1000℃/32~1832℉	1℃/1℉	±(1.0%+3)
Features			
Display Counts			6600
Auto Ranging			●
Manual Ranging			●
APO	Auto Power Off		●
REL	Relative Measurement		●
NCV	Non-Contact Voltage Detector		●
Diode	Open Voltage		3.2V
Continuity Buzzer	<50Ω		●
MAX/MIN			●
Data Hold			●
LBD	Low Battery Display		●
Display Backlight			●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	175mm×85mm×52mm/6.9"×3.3"×2.1"		
Product Weight	420g/0.92lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT III 1000V/CAT IV 600V		

Accesories included:

- Test Leads
- K Type Thermocouple
- Multi-Function Socket
- Carry bag
- Battery and User's Manual



DIGITAL MULTIMETER SMARTPHONE CONNECTION

■ MS8238H

MAIN FEATURES:
- Display 4000 Counts
- Auto & Manual Ranging
- Auto Power Off
- True RMS For AC Voltage & AC Current

VOLTAGE:	CURRENT:
DC 600V	DC 10A
AC 600V	AC 10A

MS8238H

Specifications	Range	Resolution	Accuracy
DC Voltage	400mV/4V/40V/400V	0.1mV/0.001V/0.01V/0.1V	±(0.5%+2)
	600V	1V	±(0.8%+5)
AC Voltage	4V/40V/400V/600V	0.001V/0.01V/0.1V/1V	±(1.0%+10)
DC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/0.01mA/0.1mA	±(1.0%+10)
	10A	0.01A	±(2.0%+8)
AC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/0.01mA/0.1mA	±(1.2%+5)
	10A	0.01A	±(2.0%+8)
Resistance	400Ω/4kΩ/40kΩ/ 400kΩ/4MΩ	0.1Ω/0.001kΩ/0.01kΩ/ 0.1kΩ/0.001MΩ	±(0.8%+3)
	40MΩ	0.01MΩ	±(1.2%+3)
Temperature	-20°C~1000°C	1°C	±(2.0%+2)
	-4°F~1832°F	1°F	±(2.0%+4)
Features			
Display Counts			4000
Auto range	Auto & Manual		●
APO	Auto Power Off		●
True RMS	For AC Voltage & AC Current		●
Continuity Buzzer	<50Ω		●
Diode	Open Voltage		3.2V
Data Hold			●
LBD	Low Battery Display		●
NCV	Non-Contact Voltage Detector		●
Battery Tester	1.5V/9V		●
Wireless	APP connection		●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	148mm×73.5mm×50mm / 5.8''×2.9''×1.96''		
Product Weight	241g/0.53lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT III 600V		

*For further information about SMARTPHONE Connection please check page 4.



CAT III 600V · CE · Intertek · RoHS

Accesories included:

- Test Leads
- K Type Thermocouple
- Battery and User's Manual



AUTO RANGE - MASTER

DIGITAL MULTIMETER SMARTPHONE CONNECTION

■ MS8361D



MAIN FEATURES:

- Display 4000 counts
- Auto Power Off
- Auto & Manual range
- True RMS For AC Voltage & AC Current

VOLTAGE:	CURRENT:
DC 600V	DC 10A
AC 600V	AC 10A

MS8361D

Specifications	Range	Resolution	Accuracy
DC Voltage	400mV/4V/40V/400V	0.1mV/0.001V/0.01V/0.1V	±(0.8%+3)
	600V	1V	±(1.0%+5)
AC Voltage	400mV/4V/40V/400V	0.1mV/0.001V/0.01V/0.1V	±(1.0%+8)
	600V	1V	±(1.2%+8)
DC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/0.01mA/0.1mA	±(1.0%+10)
	10A	0.01A	±(2.0%+5)
AC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/0.01mA/0.1mA	±(1.5%+5)
	10A	0.01A	±(3.0%+5)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(0.8%+3)
	40MΩ	0.001MΩ/0.01MΩ	±(1.5%+5)
Capacitance	9.999nF	0.001nF	±(5.0%+5)
	99.99nF/999.9nF/9.999μF/99.99μF/	0.01nF/0.1nF/0.001μF/0.01μF/	±(4.0%+5)
	999.9μF/9.999mF/99.99mF	0.1μF/0.001mF/0.01mF	
Frequency (V)	99.99Hz/999.9Hz/9.999kHz	0.01Hz/0.1Hz/0.001kHZ	±(1.5%+5)
	> 10kHz	0.01kHz	
Frequency (A)	99.99Hz/999.9Hz	0.01Hz/0.1Hz	±(1.5%+5)
	> 1kHz	0.001kHz	
Frequency (Hz/Duty)	9.999Hz/99.99Hz/999.9Hz/9.999kHz/	0.001Hz/0.01Hz/0.1Hz/0.001kHz	±(0.3%+5)
	99.99kHz/999.9kHz/9.999MHz	0.01kHz/0.1kHz/0.001MHz	±(0.3%+5)
Duty Cycle	0.1%-99.9%	0.1%	±3.0%
Features			
Display Counts			4000
Auto range	Auto & Manual		●
APO	Auto Power Off		●
True RMS	For AC Voltage & AC Current		●
Continuity Buzzer	<50Ω		●
Diode	Open Voltage		3.2V
hFE	0~1000		●
Data Hold			●
Display Backlight			●
REL	Relative measurement		●
LBD	Low Battery Display		●
NCV	Non-Contact Voltage Detector		●
Wireless	APP connection		●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	188mm×92mm×50mm/7.4"×3.6"×2.0"		
Product Weight	380g/0.83lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT III 600V		

CAT III 600V · CE · ETL Intertek · RoHS

Accesories included:

- Test Leads
- Multi-Function Socket
- Baattery and User's Manual

*For further information about SMARTPHONE Connection please check page 4.

AUTO RANGE - MASTER

TRMS DIGITAL MULTIMETER

■ MS8251B



MAIN FEATURES:

- Auto & Manual range
- True RMS For AC Voltage & AC Current

VOLTAGE:	CURRENT:
DC 1000V	DC 10A
AC 1000V	AC 10A

MS8251A

Specifications	Range	Resolution	Accuracy
DC Voltage	660mV	0.1mV	±(0.8%+3)
	6.6V/66V/660V	1mV/10mV/0.1V	±(0.5%+5)
	1000V	1V	±(0.8%+3)
AC Voltage	660mV(40~60Hz)	0.1mV	±(1.5%+5)
	6.6V/66V(40~400Hz)	1mV/10mV	±(1.2%+5)
	660V/1000V(40~400Hz)	0.1V/1V	±(1.0%+3)
DC Current	660μA/6600μA/66mA/660mA	0.1μA/1μA/10μA/0.1mA	±(1.0%+5)
	10A	10mA	±(2.0%+5)
AC Current	660μA/6600μA/66mA/660mA	0.1μA/1μA/10μA/0.1mA	±(1.5%+5)
	10A	10mA	±(3.0%+5)
Resistance	660Ω/6.6kΩ/66kΩ/660kΩ/6.6MΩ	0.1Ω/1Ω/10Ω/100Ω/1kΩ	±(0.8%+5)
	66MΩ	0.1MΩ	±(1.5%+5)
Capacitance	6.6nF	1pF	±(4.0%+5)
	66nF/660nF/6.6μF/66μF/660μF	10pF/0.1nF/1nF/10nF/0.1μF	±(3.0%+3)
	6.6mF/66mF	1μF/10μF	±(4.0%+5)
Frequency (V Position)	66Hz/660Hz/6.6kHz/10kHz	0.01Hz/0.1Hz/1Hz/10Hz	±(1.5%+5)
Frequency (Hz Position)	66Hz/660Hz/6.6kHz/66kHz/ 660kHz/6.6MHz/66MHz	0.01Hz/0.1Hz/1Hz/10Hz 0.1kHz/1kHz/10kHz	±(1.5%+5)
Duty Cycle	1%~99.9%	0.1%	±(2.0%)
Temperature	0~1000℃/32~1832℉	1℃/1℉	±(1.0%+3)
Features			
Display Counts			6600
Auto Ranging			●
Manual Ranging			●
APO	Auto Power Off		●
REL	Relative Measurement		●
NCV	Non-Contact Voltage Detector		●
Diode	Open Voltage		3.2V
Continuity Buzzer	<50Ω		●
MAX/MIN			●
Data Hold			●
LBD	Low Battery Display		●
Display Backlight			●
True RMS	True Root Mean Square		●
Low Z	Low Impedance Input Mode		●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	175mm×85mm×52mm/6.9"×3.3"×2.1"		
Product Weight	420g/0.92lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT III 1000V/CAT IV 600V		

CAT III 1000V · CAT IV 600V · CE · ETL Intertek · RoHS · PATENTED

Accesories included:

- Test Leads
- K Type Thermocouple
- Multi-Function Socket
- Carry bag
- Battery and User's Manual

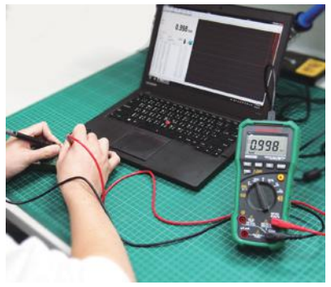


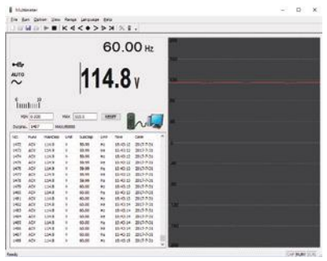


CAT III 1000V · CAT IV 600V · CE · Intertek · RoHS · PATENTED

Accesories included:

- Test Leads
- USB Interface Cable
- Software CD
- Battery and User's Manual





TRMS DIGITAL MULTIMETER

MAIN FEATURES:

- Display 6600 counts
- Auto Ranging
- Manual Ranging
- True RMS

VOLTAGE: DC 1000V, AC 1000V

CURRENT: DC 10A, AC 10A

■ MS8250D

Specifications	Range	Resolution	MS8250D Accuracy
DC Voltage	660mV	0.1mV	±(0.8%+3)
	6.6V/66V/660V/1000V	1mV/10mV/0.1V/1V	±(0.5%+5)
AC Voltage	660mV	0.1mV	±(1.5%+5)
	6.6V/66V	1mV/10mV	±(1.2%+5)
	660V/1000V	0.1V/1V	±(1.0%+3)
DC Current	660μA/6600μA/66mA/660mA	0.1μA/1μA/10μA/0.1mA	±(1.0%+5)
	10A	10mA	±(2.0%+5)
AC Current	660μA/6600μA/66mA/660mA	0.1μA/1μA/10μA/0.1mA	±(1.5%+5)
	10A	10mA	±(3.0%+5)
Resistance	660Ω/6.6kΩ/66kΩ/660kΩ/6.6MΩ	0.1Ω/1Ω/10Ω/0.1kΩ/1kΩ	±(0.8%+5)
	66MΩ	10kΩ	±(1.5%+5)
Capacitance	6.6nF	1pF	±(4.0%+5)
	66nF/660nF/6.6μF/66μF/660μF	10pF/0.1nF/1nF/10nF/0.1μF	±(3.0%+3)
	6.6mF/66mF	1μF/10μF	±(4.0%+5)
Frequency	66Hz/660Hz/6.6kHz/66kHz	0.01Hz/0.1Hz/1Hz/10Hz	±(1.5%+5)
	660kHz/6.6MHz/66MHz	0.1kHz/1kHz/10kHz	±(1.5%+5)
Duty Cycle	0.1%~99.9%	0.1%	±(2.0%+5)
Features			
Display Counts			6600
Auto Ranging			●
Manual Ranging			●
APO	Auto Power Off		●
REL	Relative Measurement		●
True RMS	True Root Mean Square		●
NCV	Non-Contact Voltage Detector		●
Diode	Open Voltage		3.2V
Continuity Buzzer			<50Ω
MAX/MIN			●
Bar Graph			●
Data Hold			●
LBD	Low Battery Display		●
Display Backlight			●
USB Interface	Windows OS		●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	175mm×86mm×52mm/6.89"×3.38"×2.04"		
Product Weight	372g/0.82lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT III 1000V/CAT IV 600V		

DIGITAL MULTIMETER ENVIRONMENTAL FUNCTIONS

MAIN FEATURES:

- Display 4000 counts
- Auto Power Off
- Auto & Manual Ranging
- Diode Open Voltage 1.5V

VOLTAGE: DC 600V, AC 600V

CURRENT: DC 10A, AC 10A

■ MS8209

Specifications	Range	Resolution	MS8209 Accuracy
DC Voltage	400mV/4V/40V/400V/600V	0.1mV/1mV/10mV/100mV/1V	±(0.7%+2)
AC Voltage	400mV/4V/40V/400V/600V	0.1mV/1mV/10mV/100mV/1V	±(0.8%+3)
DC Current	40mA/400mA	10μA/100μA	±(1.2%+3)
	10A	10mA	±(2.0%+10)
AC Current	40mA/400mA	10μA/100μA	±(1.5%+5)
	10A	10mA	±(3.0%+10)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	0.1Ω/1Ω/10Ω/100Ω/1kΩ	±(1.2%+2)
	40MΩ	10kΩ	±(2.0%+5)
Capacitance	4nF/40nF/400nF	1pF/10pF/0.1nF	±(3.0%+3)
	4μF/40μF/200μF	1nF/10nF/100nF	±(3.0%+3)
Frequency	10Hz	0.001Hz	±(2.0%+5)
	100Hz/1000Hz/10kHz	0.01Hz/0.1Hz/1Hz	±(1.5%+5)
	100kHz/200kHz	10Hz/100Hz	±(2.0%+5)
	>200kHz	0.1kHz	Reference
Duty Cycle	0.1%~99.9%	0.1%	±(3.0%)
Temperature (K-Type)	-20℃~0℃	1℃	±(5.0%+5)
	0℃~400℃	1℃	±(1.0%+3)
	400℃~1000℃	1℃	±(2.0%+3)
Relative Humidity	30%~90%	0.1%	±5.0%RH
Sound Level	35dB~100dB (±3.5dB @94dB 1kHz sine wave)	0.1dB	±(3.5%)
Luminosity	4000Lux/40000Lux	1Lux/10Lux	±(5.0%+10)
Features			
Display Counts			4000
Auto Ranging	Auto & Manual		●
APO	Auto Power Off		●
Diode	Open Voltage		1.5V
Continuity Buzzer	<40Ω		●
REL	Relative Measurement		●
Data Hold			●
LBD	Low Battery Display		●
Display Backlight			●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	158mm×78mm×39mm/6.2"×3.1"×1.5"		
Product Weight	260g/0.55lb		
Certificate	RoHS		
Safety Rating	CAT III 600V		

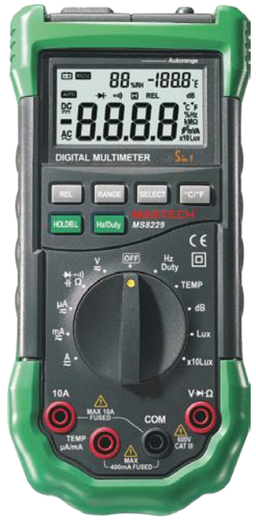


CAT III 600V · RoHS

Accesories included:

- Test Leads
- K Type Thermocouple
- Carry Bag
- Battery and User's Manual





DIGITAL MULTIMETER ENVIRONMENTAL FUNCTIONS

■ **MS8229**

MAIN FEATURES:
- Display 4000 counts
- Auto Power Off
- Auto & Manual Ranging
- Diode Open Voltage 1.5V

VOLTAGE:	CURRENT:
DC 600V	DC 10A
AC 600V	AC 10A

MS8229

Specifications	Range	Resolution	Accuracy
DC Voltage	400mV/4V/40V/400V/600V	0.1mV/1mV/10mV/0.1V/1V	±(0.7%+2)
AC Voltage	400mV/4V/40V/400V	0.1mV/1mV/10mV/0.1V	±(0.8%+3)
	600V	1V	±(1.0%+3)
DC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/10μA/0.1mA	±(1.2%+3)
	4A/10A	1mA/10mA	±(2.0%+10)
AC Current	400μA/4000μA/40mA/400mA	0.1μA/1μA/10μA/0.1mA	±(1.5%+5)
	4A/10A	1mA/10mA	±(3.0%+10)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	0.1Ω/1Ω/10Ω/0.1kΩ/1kΩ	±(1.2%+2)
	40MΩ	10kΩ	±(2.0%+5)
Capacitance	40nF/400nF/4μF/40μF/100μF	0.01nF/0.1nF/1nF/10nF/0.1μF	±(3.0%+3)
Frequency	10Hz	0.001Hz	±(2.0%+5)
	100Hz/1000Hz/10kHz	0.01Hz/0.1Hz/1Hz	±(1.5%+5)
	100kHz/200kHz	10Hz/0.1kHz	±(2.0%+5)
	>200kHz	0.1kHz	Reference
Duty Cycle	0.1%~99.9%	0.1%	±(3.0%)
Temperature (K-Type)	-20℃~0℃	1℃	±(5.0%+3)
	1℃~400℃	1℃	±(1.0%+2)
	401℃ ~1000℃	1℃	±(2.0%)
	-4℉~32℉	1℉	±(5.0%+6)
	33℉~752℉	1℉	±(1.0%+4)
	753℉~1832℉	1℉	±(2.0%)
Environment	0℃~40℃	0.1℃	±(2.0℃)
	32℉~104℉	0.1℉	±(4.0℉)
Relative Humidity	20%~95%	0.10%	±(5.0%)
Sound Level	40dB~100dB	0.1dB	±(3.5%)
Luminosity	4000Lux/40000Lux	1Lux/10Lux	±(5.0%+10)
Features			
Display Counts			4000
Auto Ranging	Auto & Manual		●
APO	Auto Power Off		●
℃/℉ Selection			●
Diode	Open Voltage		1.5V
Continuity Buzzer	<50±20Ω		●
Data Hold			●
LBD	Low Battery Display		●
Display Backlight			●
Sound & Light Warning	For Incorrectly Inserting the Input Plugs (S Version only)		●
General			
Power Supply	3×1.5V AAA Battery		
Product Size	195mm×92mm×55mm/7.7"×3.6"×2.2"		
Product Weight	390g/0.86lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		

CAT III 600V

Accesories included:
- Test Leads
- K Type Thermocouple
- Battery and User's Manual



AUTOMOTIVE DIGITAL MULTIMETER

■ **MS8239D**

MAIN FEATURES:
- Display 2000 Counts
- Auto & Manual ranging
- Auto Power Off
- Diode Open Voltage 2.7V

VOLTAGE:	CURRENT:
DC 600V	DC 10A
AC 600V	AC 10A

MS8239D

Specifications	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V/600V	0.1mV/1mV/10mV/100mV/100mV	±(0.7%+2)
AC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/100mV	±(0.8%+3)
	600V	100mV	±(1.0%+3)
DC Current	10A	0.01A	±(2.0%+10)
AC Current	10A	0.01A	±(3.0%+10)
Resistance	200Ω	0.1Ω	±(1.0%+3)
	2kΩ/20kΩ/200kΩ/2MΩ	0.001kΩ/0.01kΩ/0.1kΩ/0.001MΩ	±(1.0%+1)
	20MΩ	0.01MΩ	±(1.0%+5)
DWELL Test	4CYL/6CYL/8CYL	0.1°	±(3.0°)
TACH Test	4CYL/6CYL/8CYL	10RPM	±(3.0%+3)
Features			
Display Counts			2000
Auto ranging	Auto & Manual		●
APO	Auto Power Off		●
Diode	Open Voltage		2.7V
Continuity Buzzer	<50Ω		●
Data Hold			●
MAX	Maximum Measurement		●
Display backlight			●
LBD	Low Battery Display		●
General			
Power Supply	2×1.5V AAA Batteries		
Product Size	150mm×74mm×41mm/5.9"×2.9"×1.6"		
Product Weight	202g/0.44lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		



ENGINE ANALYZER

CAT III 600V

Accesories included:
- Test Leads
- Battery and User's Manual



DIGITAL MULTIMETER WITH CABLE TRACKER

MAIN FEATURES:

- Display 2000 counts
- Auto & Manual Ranging
- Auto Power Off
- Non-Contact Voltage Detector

VOLTAGE:
DC 600V
AC 600V

CURRENT:
DC 10A
AC 10A

■ MS8236

MS8236

Specifications	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V/600V	0.1mV/1mV/10mV/100mV/1V	±(0.5%+5)
AC Voltage	200mV/2V/20V/200V/600V	0.1mV/1mV/10mV/100mV/1V	±(0.8%+5)
DC Current	200μA/2000μA/20mA/200mA	0.1μA/1μA/10μA/0.1mA	±(1.2%+5)
	2A/10A	1mA/10mA	±(2.0%+10)
AC Current	200μA/2000μA/20mA/200mA	0.1μA/1μA/10μA/0.1mA	±(1.5%+5)
	2A/10A	1mA/10mA	±(3.0%+10)
Resistance	200Ω/2kΩ/20kΩ/200kΩ	0.1Ω/1Ω/10Ω/100Ω	±(1.0%+5)
	2MΩ/20MΩ	1kΩ/10kΩ	±(1.5%+5)
Features			
Display Counts			2000
Auto Ranging	Auto & Manual		•
APO	Auto Power Off		•
NCV	Non-Contact Voltage Detector		•
Diode	Open Voltage		1.7V
Continuity Buzzer	<70Ω		•
MAX	Maximum Measurement		•
Data Hold			•
LBD	Low Battery Display		•
Display Backlight			•
Network Cable Check	-Test for open circuits, shorts, miswires, reversals, split pairs, shield detection. -Main unit and one remote allow one person testing of T568A, T568B, 10Base-T. -Debug mode for detailed fault identification result.		•
Phone Check	-Identify the state in the working telephone line: Busy, Ringing or Clear		•
Tone	-Judge the continuity of cables or wires. -Track the cables or wires and diagnose the break point.		•
General			
Model Number	MS8236		
Power Supply	2×9V 6F22 Batteries		
Product Size	195mm×92mm×55mm/7.7"×3.6"×2.2" 238mm×43mm×26mm/9.4"×1.7"×1.0"		
Product Weight	470g/1.04lb		
Certificate	RoHS		
Safety Rating	CAT III 600V		

CAT III 600V

Accesories included:

- Test Leads
- Protective Cover
- Detection Connect Line
- Receiver
- Battery and User's Manual



INSULATION TEST. SMARTPHONE CONNECTION

MAIN FEATURES:

- Display 6600 counts
- True RMS For AC Voltage & AC Current
- Auto Ranging
- Insulation test

VOLTAGE:
DC 1000V
AC 660V

OUTPUT:
DC 1000V

■ MS5206

MS5206

Specifications	Range	Resolution	Test Current	Accuracy
DC Voltage	6.6V/66V/660V/1000V	0.001V/0.01V/0.1V/1V		±(1.0%+5)
AC Voltage	6.6V/66V/660V	0.001V/0.01V/0.1V		±(3.0%+5)
Resistance	20Ω/200Ω/2kΩ/20Ωk/200kΩ	0.01Ω/0.1Ω/1Ω/0.01kΩ/0.1kΩ		±(3.0%+10)
Insulation Function				
Output Voltage	Range	Resolution	Test Current	Accuracy
50V (0~20%)	0MΩ~20MΩ	0.01MΩ	1mA@50k	±(2.0%+5)
	20MΩ~50MΩ	0.1MΩ		
100V (0~20%)	0MΩ~20MΩ	0.01MΩ	1mA@100k	±(2.0%+5)
	20MΩ~100MΩ	0.1MΩ		
250V (0~20%)	0M~20MΩ	0.01MΩ	1mA@250k	±(2.0%+5)
	20M~200MΩ	0.1MΩ		
500V (0~20%)	0M~20MΩ	0.01MΩ	1mA@500k	±(2.0%+5)
	20M~200MΩ	0.1MΩ		
	200M~500MΩ	1MΩ		
1000V (0~20%)	0M~200MΩ	0.1MΩ	1mA@1000k	±(2.0%+5)
	200M~2000MΩ	1MΩ		
	2G~10GΩ	0.1GΩ		±(10%+5)
Features				
Display Counts				6600
Auto Ranging	Auto			•
APO	Auto Power Off			•
True RMS	For AC Voltage & AC Current			•
MAX/MIN				•
DAR/PI	For Insulation Mode			•
COMPARE				•
Lock				•
Display Backlight				•
LBD	Low Battery Display			•
Wireless	APP connection			•
General				
Power Supply	4×1.5V AA Batteries			
Product Size	205mm×102mm×58mm/8.1"×4.0"×2.3"			
Product Weight	390g/0.86lb			
Certificate	CE/ETL/RoHS			
Safety Rating	CAT III 1000V			

*For further information about SMARTPHONE Connection please check page 4.



CAT III 1000V

Accesories included:

- Test Leads
- Test Clips
- Carry Bag
- Battery and User's Manual





DIGITAL MULTIMETER WITH INSULATION TEST

■ MS5208

MAIN FEATURES:
- Display 6600 counts
- Up to 1kV
- TRMS
- 2 GΩ

VOLTAGE:	CURRENT:	OUTPUT:
DC 1000V	DC 400mA	DC 1000V
AC 750V	AC 400mA	

MS5208

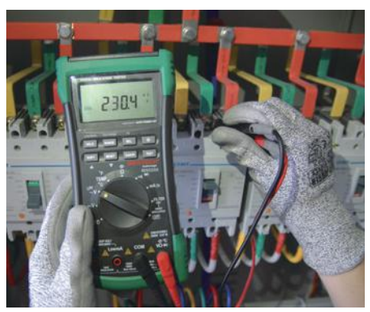
Specifications	Range	Resolution	Accuracy
DC Voltage	660mV/6.6V/66V/660V/1000V	0.1mV/1mV/10mV/0.1V/1V	±(0.5%+5)
AC Voltage	660mV/6.6V/66V/660V/750V	0.1mV/1mV/10mV/0.1V/1V	±(1.5%+30)
DC Current	66mA/400mA	10μA/0.1mA	±(1.0%+5)
AC Current	66mA/400mA	10μA/0.1mA	±(1.5%+30)
Resistance	660Ω/6.6kΩ/66kΩ/660kΩ	0.1Ω/1Ω/10Ω/0.1kΩ	±(1.2%+5)
	6.6MΩ/66MΩ	1kΩ/10kΩ	±(2.0%+20)
Capacitance	66nF/660nF/6.6μF/66μF	10pF/0.1nF/1nF/10nF	±(5.0%+20)
	660μF/6.6mF/66mF	0.1μF/1μF/10μF	±(5.0%+20)
Frequency	660.0Hz/6.600kHz/66.00kHz	0.1Hz/1Hz/10Hz	±(1.5%+5)
	>10kHz	10Hz	Reference
Temperature	-30℃~1300℃	1℃	±(1.0%+2)
	-22℉~2372℉	1℉	±(1.0%+4)

Insulation Function				
Output Voltage	Range	Resolution	Test Current	Accuracy
50V (0~20%)	0M~5MΩ	0.01MΩ	1mA@50k	±(3.0%+5)
	5M~50MΩ	0.1MΩ		
100V (0~20%)	0M~5MΩ	0.01MΩ	1mA@100k	±(3.0%+5)
	5M~50MΩ	0.1MΩ		
	50M~100MΩ	1MΩ		
250V (0~20%)	0M~25MΩ	0.1MΩ	1mA@250k	±(3.0%+5)
	25M~250MΩ	1MΩ		
500V (0~20%)	0M~50MΩ	0.1MΩ	1mA@500k	±(3.0%+5)
	50M~500MΩ	1MΩ		
1000V (0~20%)	0M~50MΩ	0.1MΩ	1mA@1000k	±(3.0%+5)
	50M~500MΩ	1MΩ		
	0.5G~2.0GΩ	0.1GΩ		±(5.0%+5)

Features			
Display Counts			6600
Auto Ranging	Auto & Manual		●
APO	Auto Power Off		●
True RMS	For AC Voltage & AC Current		●
DAR/PI	For Insulation Mode		●
REL	Relative Measurement		●
Continuity Buzzer	<30Ω		●
Diode	Open Voltage		2.4V
LPF	Low Pass Filter Function (1kHz)		●
Data Logging	100 Groups		●
LBD	Low Battery Display		●
LOCK / Data Recording / MAX/MIN/AVG / Data Hold / Display Backlight			●
General			
Power Supply	4×1.5V AA Batteries	Product Weight	390g/0.86lb
Product Size	205mm×102mm×58mm/8.1"×4.0"×2.3"		
Safety Rating	CAT III 1000V	Certificate	CE/ETL/RoHS

CAT III 1000V · CE · ETL Intertek · RoHS

Accesories included:
- Test Leads
- Test Clips
- K Type Thermocouple
- Multi-Function Socket
- Carry Bag
- Battery and User's Manual



DIGITAL MULTIMETER

■ MS6100

MAIN FEATURES:
- Display 8 digits (22000 counts), about 10mm high red LED display with decimal point
- Power Requirement AC 198~264V 50/60Hz / AC 90~132V

A INPUT:	B INPUT:
10Hz-100MHz	100MHz-1300MHz

MS6100

Frequency Measurements			
Channel	Range	Resolution	Accuracy
A	10MHz (10Hz~10MHz)	1,10,100Hz selectable	±1 count ±1x10^{-5} x frequency (month) ±1 count ±5x10^{-6} x frequency (minute)
	100MHz (10MHz~100MHz)	10,100,1000Hz selectable	
B	1300MHz (100MHz~1300MHz)	100Hz,1kHz,10kHz selectable	

Period Measurements			
Channel	Range	Resolution	Accuracy
A (only)	0.1S~0.1μS (10Hz~10MHz)	0.0μS 0.00μS 0.000μS selectable	±1 count ±1x10^{-5} x frequency (month) ±1 count ±5x10^{-6} x frequency (minute)

Total Measurements		
Channel	Range	Resolution
A (only)	10Hz~10MHz	1 count input

Input Characteristics	
Channel A	MAX Input Voltage: 250V RMS / Impedance: 1MΩ less than 35pF
Channel B	MAX Input Voltage: 3V RMS / Impedance: 50Ω

Features	
Display Counts	8 digits (22000 count), about 10mm high red LED display with decimal point
Power Requirement	AC 198~264V 50/60Hz
	AC 90~132V 50/60Hz
Temperature	Operating: 0℃~40℃
	Storage: -10℃~50℃
Relative Humidity	20%~80%RH (0℃~40℃)
Low Pass Filter	~100kHz, -3dB
	~150kHz, -3dB at ATTN condition
Data Hold	●
Self Check	●
Overrange Indications	●
OSC. Out	10MHz

General	
Power Supply	220V/110V AC
Product Size	300mm×260mm×74mm/11.8"×10.2"×2.9"
Product Weight	1850g/4.02lb
Certificate	CE/ETL/RoHS





CE · ETL Intertek · RoHS

Accesories included:
- BNC to BNC Test Lead (50 ohm, 100cm)
- Power Cord
- User's Manual

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BENCH TYPE





DIGITAL MULTIMETER

MAIN FEATURES:
- Dual Display 22000 counts and 44 Segments Bars Graph
- Auto & Manual Ranging
- True RMS for AC Voltage & AC Current

VOLTAGE:	CURRENT:
DC 1000V	DC 10A
AC 750V	AC 10A

■ MS8040

MS8040 22000 Counts High Precision Desktop Digital Multimeter with AC True RMS & LPF & RS232 Data Communication has a wide range of applications in labs, factories, and work rooms. With high resolution for the measurement of voltage and current. The precision of DC voltage and current even reaches up to 0.05%. The MS8040 offers two power supply options and RS232 data communication interface, satisfying all your needs. And it has the low-pass filter (LPF) to effectively reduce high-frequency noise when measuring AC voltage.

Accesories included:
- Test Leads
- RS232C Cable
- K Type Thermocouple
- Multi-Function Socket
- Power Cord
- Software CD
- User's Manual

MS8040

Specifications	Range		Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V/1000V		0.01mV/0.1mV/1mV/10mV/0.1V	±(0.05%+6)
AC Voltage	200mV/2V/20V/200V/750V	(40Hz~60Hz)	0.01mV/0.1mV/1mV/10mV/0.1V	±(0.5%+30)
		(60Hz~5kHz)		±(1.5%+30)
		(5kHz~10kHz)		±(2.5%+30)
DC Current	200μA/2mA/20mA/200mA		0.01μA/0.1μA/1μA/10μA	±(0.15%+15)
	10A		1mA	±(0.5%+15)
AC Current	200μA/2mA/20mA/200mA	(40Hz~60Hz)	0.01μA/0.1μA/1μA/10μA	±(0.8%+30)
		(60Hz~1kHz)		±(1.0%+30)
		(1kHz~5kHz)		±(1.0%+30)
	10A	(40Hz~60Hz)	1mA	±(1.5%+30)
		(60Hz~1kHz)		±(1.2%+30)
		(1kHz~5kHz)		±(2.0%+30)
Resistance	200Ω/2kΩ		0.01Ω/0.1Ω	±(0.1%+10)
	20kΩ/200kΩ		1Ω/10Ω	±(0.1%+5)
	2MΩ		0.1kΩ	±(0.1%+10)
	20MΩ		1kΩ	±(0.5%+10)
	200MΩ		10kΩ	±(2%+10)
Capacitance	2nF/200nF/2μF/20μF		0.1pF/10pF/0.1nF/1nF	±(1.2%+30)
	200μF/2000μF/20mF		10nF/0.1μF/1μF	±(2.2%+30)
Logic Frequency	20Hz~220MHz		1Hz	±(0.06%+10)
Temperature	-30℃~1300℃		1℃	±(1.0%+2)
	-22℉~2372℉		1℉	±(1.0%+4)
Duty Cycle	5%~95%		0.10%	±(10.0%)
Clamp DC Current	220A/2200A		0.01A/0.1A	±(0.1%+10)
Clamp AC Current	220A/2200A (50Hz~60Hz)		0.01A/0.1A	±(1.0%+30)
Features				
Dual Display	22000 counts and 44 Segments Bars Graph			
Auto Ranging	Auto & Manual			
Auto Power Off	•			
True RMS	For AC Voltage & AC Current			
Low pass filter (1kHz)	For AC Voltage & AC Current			
Relative Measurement	•			
Peak Measurement	•			
Diode	2.8V			
Continuity Buzzer	<30Ω			
MAX/MIN	•			
Data Hold	•			
Display Backlight	•			
USB Interface	Windows OS			
General				
Power Supply	220V or 110V AC (50~60Hz)			
Product Size	238mm×230mm×83mm/ 9.4"×9.1×3.3"			
Product Weight	1500g/3.4lb			
Certification	CE/ETL/RoHS			
Safety Rating	CAT Ⅱ 1000V			

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BENCH TYPE





DIGITAL MULTIMETER

MAIN FEATURES:
- Display VFD 53000 counts
- Auto & Manual Ranging
- True RMS

VOLTAGE:	CURRENT:
DC 1000V	DC 10A
AC 1000V	AC 10A

■ MS8050

MS8050 is a bench model DMM product that has high accuracy and high stability. It can operate for several ten measurement functions. It's five digits count up to 53000. Not only DC, AC RMS, but DC and AC mixture signals RMS can be measured for 1000V or 10A. The resolution of DCV is 1uV and the frequency band of voltage or current is about 20kHz.It has a memory function up to 30 full screens for saving test data, has a color fluorescent double digital display screen. The meter has a light-coupling RS-232C interface and a computer software, can display, draw, record all test processes on a computer. The graphic software has an exclusive dynamic scale, which can describe very small changes of electric parameters. MS8050 together with a computer becomes a very useful measurement recorder. The protection functions against some error operations get its safety characteristic guaranteed. It is the best choice for factories, science research organizations, and laboratories in universities.

CAT II 1000V RoHS PATENTED

Accesories included:
- Test Leads
- RS232C Cable
- Alligator Clip
- Carrying Strap
- Power Cord
- Software CD
- User's Manual

MS8050

Specifications	Range	Resolution	Accuracy
DC Voltage	50mV	0.001mV	±(0.03%+10)
	500mV/5V/50V/ 500V1000V	0.01mV/0.1mV/1mV/ 10mV/0.1V	±(0.03%+6)
AC Voltage	50mV/500mV/5V/ 50V/500V/1000V (40Hz~1kHz)	0.001mV/0.01mV/0.1mV/ 1mV/10mV/0.1V	±(0.5%+40)
	50mV/500mV/5V/ 50V/500V (1kHz~10kHz)	0.001mV/0.01mV/0.1mV/ 1mV/10mV	±(1.0%+40)
	1000V (1kHz~10kHz)	0.1V	unspecified
	50mV/500mV/5V/ 50V (10kHz~20kHz)	0.001mV/0.01mV/0.1mV/ 1mV	±(2.5%+40)
	500V/1000V (10kHz~20kHz)	10mV/0.1V	unspecified
DC Current	500μA	0.01μA	±(15%+15)
	5mA/50mA/500mA	0.1μA/1μA/10μA	±(15%+10)
	5A/10A	0.1mA/1mA	±(0.5%+10)
AC Current	500μA/50mA/5A (40Hz~1kHz)	0.01μA/1μA/0.1mA	±(0.75%+20)
	5000μA/500mA/10A (40Hz~1kHz)	0.1μA/10μA/1mA	±(0.75%+10)
	500μA/50mA/5A (1kHz~10kHz)	0.01μA/1μA/0.1mA	±(1.0%+20)
	5000μA/500mA/10A (1kHz~10kHz)	0.1μA/10μA/1mA	±(1.0%+10)
	500μA/50mA/5A (10kHz~20kHz)	0.01μA/1μA/0.1mA	±(2.0%+20)
	5000μA/500mA (10kHz~20kHz)	0.1μA/10μA	±(2.0%+10)
	10A(10kHz~20kHz)	1mA	unspecified
Resistance	500Ω	0.01Ω	±(0.1%+10)
	5kΩ/50kΩ/500kΩ	0.1Ω/1Ω/10Ω	±(0.1%+5)
	5MΩ	0.1kΩ	±(0.1%+10)
	50MΩ	1kΩ	±(0.5%+10)
Capacitance	50nF/500nF	1pF/10pF	±(1.0%+15)
	5μF/50μF	0.1nF/1nF	±(1.0%+10)
	500μF/5000μF	10nF/0.1μF	±(2.0%+10)
Logic Frequency	5Hz~2MHz	1Hz	±(0.006%+4)
Duty Cycle	10%~90%	0.01%	±(10.0%)
Linear Frequency	5Hz~200kHz	1Hz	±(0.006%+4)
Features			
Display VFD	53000 counts		
Auto Ranging	Auto & Manual		
Auto Power Off	•		
True RMS	•		
Relative Measurement	•		
Diode	Open Voltage: 3.3V		
Continuity Buzzer	<50±20Ω		
dBm Measurement	•		
MAX/MIN/AVG	•		
Data Hold	•		
Data Logging	30 groups		
PC Analysis Software	•		
USB Interface	Windows OS		
General			
Power Supply	220V/110V AC		
Product Size	350mm×240mm×100mm/13.8"×9.5"×3.9"		
Product Weight	2500g/5.5lb		
Certificate	RoHS		
Safety Rating	CAT II 1000V		

Digital Clamp Meters

AC current | AC/DC current | Leakage | Power
Special application | Line splitters



AC CLAMP METER SMART TECHNOLOGY

MS2033A

MAIN FEATURES:
- Dual display with backlight
- Continuity detection
- Auto Hold, Max/Min hold
- Low battery display

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 26 mm / 1.0"	DC 600V AC 600V	AC 600A

MS2033A

Specifications	Range	Resolution	Accuracy
DC Voltage	6V/60V/600V	0.01V/0.1V/1V	±(0.5%+3)
AC Voltage	6V/60V/600V	0.01V/0.1V/1V	±(0.8%+5)
AC Current	2A/20A/200A	0.01A/0.01A/0.1A	±(2.5%+8)
	600A	1A	±(3.0%+10)
Resistance	2kΩ/20kΩ/200kΩ/2MΩ	0.001kΩ/0.01kΩ/0.1kΩ/0.001MΩ	±(0.8%+3)
	10MΩ	0.01MΩ	±(1.0%+5)
Frequency (Clamp)	60Hz/600Hz/3kHz	0.1Hz/1Hz/10Hz	±(1.0%+5)
Frequency (Plug)	60Hz/600Hz/3kHz	0.1Hz/1Hz/10Hz	±(1.0%+5)
Duty Cycle	10% ~ 90%	1%	±2.0%
Features			
Display Counts			6000
Jaw Opening			Ø26mm/1.0"
Auto range	Auto		•
APO	Auto Power Off		•
Dual Display			•
Continuity Buzzer	<40Ω		•
A Hold	Data Auto hold		•
MAX/MIN			•
Display Backlight			•
LBD	Low Battery Display		•
General			
Power Supply	3×1.5V AAA Batteries		
Product Size	204mm×78mm×43mm/8''×3.07''×1.77''		
Product Weight	195g/0.43lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		

*For further information about SMART technology please check page 6.



Accesories included:
- Test Leads
- Battery and User's Manual





AC CLAMP METER SMALL JAW

- **MS2030**
- **MS2030B**

MAIN FEATURES:
- Diode and Continuity detection
- Data Hold
- Low battery display

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 28 mm / 1.1”	DC 600V AC 600 V	AC 600A

Specifications	Range	Resolution	MS2030	MS2030B
			Accuracy	
DC Voltage	600V	1V	±(1.0%+3)	
	400mV/4V/40V/400V/600V	0.1mV/1mV/10mV/0.1V/1V		±(0.8%+3)
AC Voltage	600V	1V	±(1.5%+10)	
	400mV/4V/40V/400V/600V	0.1mV/1mV/10mV/0.1V/1V		±(1.0%+5)
AC Current	2A/20A	1mA/10mA	±(2.0%+10)	
	200A	0.1A		
	400A	1A	±(2.0%+5)	
	4A/40A/400A/600A	1mA/10mA/0.1A/1A		±(2.5%+5)
Resistance	2kΩ	1Ω	±(1.0%+5)	
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	0.1Ω/1Ω/10Ω/0.1kΩ/1kΩ		±(1.0%+5)
	40MΩ	10kΩ		±(2.0%+5)
Capacitance	5nF	1pF		±(4.0%+5)
	50nF/500nF/5μF/50μF/100μF	10pF/0.1nF/1nF/10nF/0.1μF		±(3.0%+3)
Frequency	50Hz/500Hz/5kHz/10kHz	0.01Hz/0.1Hz/1Hz/10Hz		±(1.0%+5)
Duty Cycle	0.1%~99.9%	0.1%		±(2.0%)
Temperature	-20℃~1000℃	1℃		±(3.0%+3)
	-4℉~1832℉	1℉		±(3.0%+3)
Features				
Display Counts			2000	4000
Jaw Opening			Φ28mm/1.1"	Φ28mm/1.1"
Auto Ranging	Auto & Manual			●
APO	Auto Power Off			●
Diode	Open Voltage		4.5V	1.5V
Continuity	Continuity Buzzer		<70Ω	<50±20Ω
Data Hold			●	●
Backlight	Display Backlight			●
Work Light				●
NCV	Non-Contact Voltage Detector			●
LBD	Low Battery Display		●	●
General				
Power Supply	3×1.5V AAA Batteries			
Product Size	198mm×79mm×38mm/7.8"×3.1"×1.5"			
Product Weight	195g/0.43lb			
Certificate	CE/ETL/RoHS			
Safety Rating	CAT Ⅲ 600V			

CAT III 600V · CE · ETL Intertek · RoHS

Accesories included:
- Test Leads
- K Type Thermocouple (MS2030B)
- Carry Bag
- Battery and User’s Manual



AC CLAMP METER 1000A

- **M266**
- **M266C**
- **M266F**

MAIN FEATURES:
- Diode and Continuity detection
- Data Hold
- Low battery display

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 50 mm / 2.0”	DC 1000V AC 750 V	AC 1000A

Specifications	Range	Resolution	M266	M266C	M266F
			Accuracy		
DC Voltage	200mV	0.1mV		±(0.5%+1)	
	2V/20V/200V	1mV/10mV/0.1V		±(0.5%+3)	±(0.5%+3)
	1000V	1V	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
AC Voltage	200V	0.1V		±(1.0%+5)	±(1.0%+5)
	750V	1V	±(1.2%+5)	±(1.2%+5)	±(1.2%+5)
AC Current	20A	10mA		±(4.0%+5)	
	200A	0.1A	±(2.5%+5)	±(2.5%+5)	±(2.5%+5)
	1000A	1A	±(3.0%+10)	±(3.0%+10)	±(3.0%+10)
Resistance	200Ω	0.1Ω	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)
	2kΩ	1Ω			±(1.0%+8)
	20kΩ	10Ω	±(1.0%+8)	±(1.0%+8)	±(1.0%+8)
	200kΩ	0.1kΩ			±(1.0%+8)
	2MΩ	1kΩ		±(1.0%+8)	±(1.0%+8)
Frequency	2kHz	1Hz			±(2.0%+5)
Temperature	0℃~400℃ (32℉~752℉)	1℃		±(1.0%+3)	
	401℃~750℃ (752℉~1382℉)	1℉		±(2.0%+3)	
Insulation Test	20MΩ	10kΩ		±(2.0%+2)	
	2000MΩ (Note<500MΩ)	1MΩ		±(4.0%+2)	
	2000MΩ (Note>500MΩ)	1MΩ		±(5.0%+2)	
Features					
Display Counts				2000	
Jaw Opening				Φ50mm/2.0"	
Diode	Open Voltage				2.7V
Continuity Buzzer	<100Ω			●	
Data Hold				●	
LBD	Low Battery Display			●	
General					
Power Supply	1×9V 6F22 Battery				
Product Size	235mm×96mm×46mm/9.25"×3.8"×1.8"				
Product Weight	268g/0.59lb				
Model Number	M266	M266C	M266F		
Certification	CE / ETL / RoHS	RoHS	CE / ETL / RoHS		
Safety Rating	CAT Ⅱ 1000V/ CAT Ⅲ 600V	CAT Ⅱ 1000V/ CAT Ⅲ 600V	CAT Ⅱ 1000V/ CAT Ⅲ 600V		



CAT II 1000V · CAT III 1000V · CE · ETL Intertek · RoHS

Accesories included:
- Test Leads
- K Type Thermocouple (M266C)
- Carry Bag
- Battery and User’s Manual





CAT II 1000V

AC CLAMP METER 2000A

MAIN FEATURES:
- Display backlight
- Diode and Continuity detection
- Data Hold
- Low battery display

JAW SIZE: Ø 40 mm / 1.6"

VOLTAGE: DC 1000V, AC 750 V

CURRENT: AC 2000A

■ **MS2000G**

Specifications	Range	Resolution	MS2000G Accuracy
DC Voltage	2V/20V/200V	1mV/10mV/0.1V	±(0.5%+1)
	1000V	1V	±(1.0%+2)
AC Voltage	200V/750V	0.1V/1V	±(1.0%+3)
AC Current	200A	0.1A	±(2.0%+5)
	2000A(<600A)	1A	±(2.0%+5)
	2000A(600A~1000A)	1A	±(3.0%+5)
	2000A(>1000A)	1A	±(3.0%+15)
Resistance	200Ω	0.1Ω	±(1.0%+3)
	20kΩ/2MΩ	10Ω/1kΩ	±(1.5%+15)
Frequency	2kHz	1Hz	±(2.0%+5)
	20kHz	10Hz	±(1.5%+5)
Temperature	0℃~400℃/32℉~752℉	1℃/1℉	±(1.0%+3)
	401℃~750℃/753℉~1382℉	1℃/1℉	±(2.0%+1)
Features			
Display Counts			2000
Jaw Opening	Φ55mm/2.2"		●
Diode	Open Voltage		3.0V
Continuity Buzzer	<30Ω		●
Data Hold			●
Display Backlight			●
LBD	Low Battery Display		●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	282mm×104mm×47mm/11"×4.1"×1.85"		
Product Weight	570g/1.26lb		
Safety Rating	CAT Ⅱ 1000V		
Certificate	RoHS		

Accesories included:
- Test Leads
- K type Thermocouple
- Wrapping Case
- Battery and User's Manual

AC CLAMP METER 600A

MAIN FEATURES:
- Display backlight, Work Light
- Diode and Continuity detection
- NCV detection

JAW SIZE: Ø 26 mm / 1.0"

VOLTAGE: DC 600V, AC 600 V

CURRENT: AC 600A

■ **MS2009A**
■ **MS2009C**

Specifications	Range	Resolution	MS2009A Accuracy	MS2009C Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/0.001V/0.01V/0.1V	±(0.6%+3)	
	600mV/6V/60V	0.1mV/0.001V/0.01V		±(0.8%+2)
	600V	1V	±(0.8%+3)	±(1.0%+2)
AC Voltage	200mV	0.1mV	±(2.0%+3)	
	2V/20V/200V	0.001V/0.01V/0.1V	±(0.8%+5)	
	600mV/6V/60V	0.1mV/0.001V/0.01V		±(1.0%+10)
	600V	1V	±(1.0%+5)	±(1.2%+10)
AC Current	2A/20A/200A/600A	0.001A/0.01A/0.1A/1A	±(2.0%+5)	
	6A/60A/600A	0.001A/0.01A/0.1A		±(2.5%+10)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ/1kΩ	±(0.8%+4)	
	20MΩ	0.01MΩ	±(1.2%+5)	
	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ/1kΩ		±(1.2%+2)
	60MΩ	0.01MΩ		±(2.0%+2)
Capacitance	10nF/100nF/1000nF/	0.001nF/0.01nF/0.1nF		±(3.0%+10)
	10μF/100μF/1000μF	1nF/10nF/100nF		±(3.0%+10)
	10mF/60mF	10μF		±(4.0%+10)
Frequency (A)	100Hz/1kHz	0.01Hz/0.1Hz		±(1.5%+5)
Frequency (V)	100Hz/1kHz/10kHz	0.01Hz/0.1Hz/0.001kHz		±(1.5%+5)
Frequency (Hz/Duty)	10Hz/100Hz/1kHz/10kHz	0.001Hz/0.01Hz/0.1Hz/0.001kHz		±(0.5%+5)
	100kHz/1MHz/10MHz	0.01kHz/0.1kHz/0.001MHz		±(0.5%+5)
Duty Cycle	0.5%~99%	0.1%		±(1.5%+15)
Temperature	-20℃~1000℃	1℃		±(2.0%+2)
	-4℉~1832℉	1℉		±(2.0%+4)
Features				
Display Counts			2000	6000
Jaw Opening			Φ26mm/1.0"	Φ26mm/1.0"
Auto Ranging	Auto & Manual		●	●
APO	Auto Power Off		●	●
NCV	Non-Contact Voltage Detector		●	●
Diode	Open Volatge		1.5V	1.5V
Continuity Buzzer			<60Ω	<60Ω
MAX			●	
Data Hold			●	●
Display Backlight			●	●
Work Light			●	●
LBD	Low Battery Display		●	●
General				
Power Supply	3×1.5V AAA Batteries			
Product Size	218mm×78mm×35mm/8.9"×3.1"×1.4"			
Product Weight	239g/0.53lb			
Safety Rating	CAT Ⅲ 600V	Certificate	CE/ETL/RoHS	



CAT III 600V

Accesories included:
- Test Leads
- Carry Bag
- Battery and User's Manual
- K type thermocouple(MS2009C)





CAT III 1000V | CAT IV 600V

CE | ETL Intertek | RoHS

Accesories included:

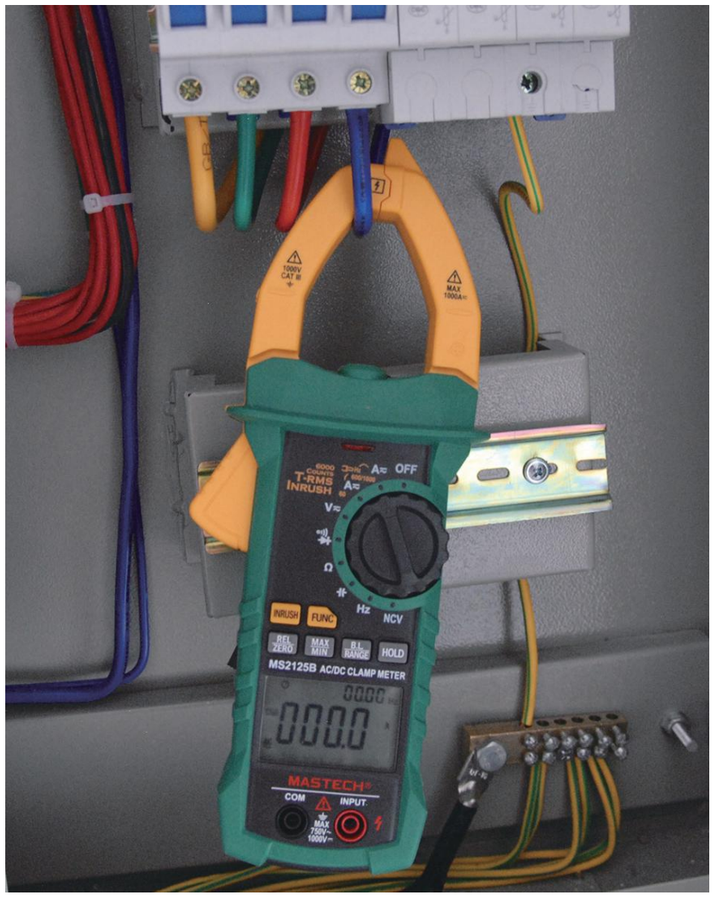
- Test Leads
- Carry Bag
- K type Thermocouple (MS2025C)
- Battery and User's Manual

TRMS AC CLAMP METER 1000A

MAIN FEATURES:
- 6.000 counts
- TRMS
- Capacitance
- Display backlight, Work Light

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 40 mm / 1.6"	DC 1000V AC 750 V	AC 1000A

- **MS2025A**
- **MS2025C**



Specifications	Range	Resolution	Accuracy MS2025A	Accuracy MS2025C
DC Votage	60mV/600mV/6V/60V/600V	0.01mV/0.1mV/0.001V/0.01V/0.1V	±(0.5%+5)	
	660mV	0.1mV		±(0.8%+2)
	6.6V/66V/660V	0.001V/0.01V/0.1V		±(0.7%+2)
	1000V	1V	±(0.8%+4)	±(0.8%+2)
AC Votage	60mV/600mV/6V/60V/600V	0.01mV/0.1mV/0.001V/0.01V/0.1V	±(0.6%+5)	
	660mV	0.1mV		±(1.5%+10)
	6.6V/66V/660V	0.001V/0.01V/0.1V		±(0.8%+3)
	750V	1V	±(0.8%+4)	±(1.0%+4)
AC Current	60A/600A/1000A	0.01A/0.1A/1A	±(2.0%+8)	
	66A/660A/1000A	0.01A/0.1A/1A		±(2.5%+6)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(0.8%+3)	
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	±(1.2%+3)	
	660Ω/6.6kΩ/66kΩ/660kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ		±(0.8%+3)
	6.6MΩ/66MΩ	0.001MΩ/0.01MΩ		±(1.2%+3)
Capacitance	10nF/100nF/1000nF/10μF	0.001nF/0.01nF/0.1nF/0.001μF	±(3.0%+5)	
	100μF/1000μF/10mF/100mF	0.01μF/0.1μF/0.001mF/0.01mF	±(3.0%+5)	
	6.6nF/66nF/660nF/6.6μF	0.001nF/0.01nF/0.1nF/0.001μF		±(4.0%+5)
	66μF/660μF/6.6mF/66mF	0.01μF/0.1μF/0.001mF/0.01mF		±(4.0%+5)
Frequency (A)	100Hz/1000Hz	0.01Hz/0.1Hz	±(1.5%+5)	
	66Hz/660Hz	0.01Hz/0.1Hz		±(1.5%+5)
Frequency (V)	100Hz/1000Hz/10kHz	0.01Hz/0.1Hz/0.001kHz	±(1.5%+5)	
	66Hz/660Hz/6.6kHz	0.01Hz/0.1Hz/0.001kHz		±(1.5%+5)
Logic Frequency	10Hz/100Hz/1000Hz/10kHz	0.001Hz/0.01Hz/0.1Hz/0.001kHz	±(0.3%+5)	
	100kHz/1000kHz/10MHz	0.01kHz/0.1kHz/0.001MHz	±(0.3%+5)	
	66Hz/660Hz/6.6kHz/66kHz	0.01Hz/0.1Hz/0.001kHz/0.01kHz		±(0.5%+2)
	660kHz/6.6MHz/66MHz	0.1kHz/0.001MHz/0.01MHz		±(0.5%+2)
Duty Cycle	0.1%~99.9%	0.1%	±(3.0%)	±(3.0%)
Temperature	-20℃~1000℃/-4℉~1832℉	1℃/1℉		±(3.0%+3)
Features				
Display Counts			6000	6600
Jaw Opening			Φ40mm/1.6"	Φ40mm/1.6"
Auto Ranging	Auto & Manual		●	●
APO	Auto Power Off		●	●
NCV	Non-Contact Voltage Detector		●	●
REL	Relative Measurement		●	●
Diode	Open Voltage		3.2V	3.2V
Continuity Buzzer	<50Ω		●	●
Data Hold			●	●
Display Backlight			●	●
MAX/MIN	Max/Min Measurement		●	●
Work Light			●	●
True RMS	True Root Mean Square		●	●
LBD	Low Battery Display		●	●
Dual Display				●
Bar Graph	Segments Bar Graph			●
General				
Power Supply	1×9V 6F22 Battery			
Product Size	238mm×92mm×50mm/9.37"×3.6"×1.9"			
Product Weight	390g/0.86lb			
Certification	CE/ETL/RoHS			
Safety Rating	CAT Ⅲ 1000V/CAT Ⅳ 600V			

MASTECH®
BUILD TO PRECISION

AC CURRENT- MASTER



CAT III 600V | CE | ETL Intertek | RoHS

TRMS AC CLAMP METER 600A

MS2028A

MAIN FEATURES:
- Display 2000 counts
- Auto Power Off
- Auto & Manual Ranging
- Diode Open Voltage 1.5V

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 26 mm / 1.0"	DC 600V AC 600 V	AC 600A

MS2028A

Specifications	Range	Resolution	Accuracy
DC Voltage	2V/20V/200V	1mV/10mV/0.1V	±(0.8%+2)
	600V	1V	±(1.0%+2)
AC Voltage	2V/20V/200V	1mV/10mV/0.1V	±(1.0%+5)
	600V	1V	±(1.2%+5)
AC Current	2A(<0.5A)	1mA	±(3.5%+20)
	2A	1mA	±(3.0%+10)
	20A	10mA	±(3.0%+10)
	200A	0.1A	±(2.5%+10)
	600A	1A	±(1.5%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ	0.1Ω/1Ω/10Ω/0.1kΩ/1kΩ	±(1.2%+2)
	20MΩ	10kΩ	±(2.0%+5)
Features			
Display Counts			2000
Jaw Opening			Φ26mm/1.0"
Auto Ranging	Auto & Manual		●
APO	Auto Power Off		●
Diode	Open Voltage		1.5V
Continuity	Continuity Buzzer		<50Ω
True RMS	True root mean square		●
MAX	Maximum Measurement		●
Data Hold			●
Backlight	Display Backlight		●
LBD	Low Battery Display		●
General			
Power Supply	3×1.5V AAA Batteries		
Product Size	208mm×78mm×35mm/8.2"×3.1"×1.4"		
Product Weight	245g/0.54lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		

Accesories included:
- Test Leads
- Carry Bag
- Battery and User's Manual



AC/DC CLAMP METER 1000A

MS2101

MAIN FEATURES:
- Temperature
- Diode and Continuity detection
- Zero Function
- Data Hold

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 42 mm / 1.7"	DC 1000V AC 750 V	DC 1000A AC 1000A

MS2101

Specifications	Range	Resolution	Accuracy
DC Voltage	400mV/4V/40V/400V	0.1mV/1mV/10mV/0.1V	±(0.7%+1)
	1000V	1V	±(0.8%+3)
AC Voltage	4V/40V/400V	1mV/10mV/0.1V	±(0.8%+5)
	750V	1V	±(1.0%+10)
DC Current	400A/1000A	0.1A/1A	±(3.0%+3)
AC Current	400A/1000A	0.1A/1A	±(3.0%+3)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	0.1Ω/1Ω/10Ω/0.1kΩ/1kΩ	±(1.2%+1)
	40MΩ	10kΩ	±(2.0%+3)
Capacitance	4nF/40nF/400nF	1pF/10pF/0.1nF	±(4.0%+10)
	4μF/40μF/100μF	1nF/10nF/100nF	±(4.0%+10)
Frequency	40Hz/400Hz/4kHz	0.01Hz/0.1Hz/1Hz	±(2.0%+1)
	40kHz/100kHz	10Hz/0.1kHz	±(2.0%+1)
Duty Cycle	0.1%~99.9%	0.10%	±(2.0%+2)
Temperature	-40℃~0℃	1℃	±(1.0%+6)
	1℃~400℃	1℃	±(1.0%+3)
	401℃~750℃	1℃	±(1.0%+5)
Features			
Display Counts			4000
Jaw Opening			Φ42mm/1.7"
Auto Ranging	Auto & Manual		●
APO	Auto Power Off		●
Diode	Open Voltage		2.2V
Continuity	Continuity Buzzer		<50±20Ω
Data Hold			●
LBD	Low Battery Display		●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	250mm×99mm×43mm/9.8"×3.9"×1.7"		
Product Weight	416g/0.92lb		
Certification	RoHS		
Safety Rating	CAT Ⅱ 1000V/CAT Ⅲ 600V		



CAT II 1000V | CAT III 600V | RoHS

Accesories included:
- Test Leads
- K type Thermocouple
- Carry Bag
- Battery and User's Manual



CAT III 600V | CE | ETL Intertek | RoHS

Accesories included:

- Test Leads
- Carry Bag
- Battery and User's Manual



AC/DC CLAMP METER 400A

MAIN FEATURES:
- Display backlight, Work Light
- Diode and Continuity detection
- Relative measurement
- Data Hold, Max/Min hold

JAW SIZE:	VOLTAGE:	-	CURRENT:
Ø 26 mm / 1.0"	DC 600V AC 600 V		DC 400A AC 400A

■ **MS2128A**

MS2128A

Specifications	Range	Resolution	Accuracy
DC Votage	400mV	0.1mV	±(1.0%+2)
	4V/40V/400V	0.001V/0.01V/0.1V	±(0.7%+2)
	600V	0.1V	±(0.8%+2)
AC Votage	4V/40V/400V	0.001V/0.01V/0.1V	±(0.8%+3)
	600V	0.1V	±(1.0%+4)
DC Current	40A/400A	0.01A/0.1A	±(2.0%+6)
AC Current	40A/400A	0.01A/0.1A	±(2.0%+6)
Resistance	400Ω/4kΩ/40kΩ	0.1Ω/0.001kΩ/0.01kΩ	±(0.8%+3)
	400kΩ/4MΩ	0.1kΩ/0.001MΩ	±(0.8%+3)
	40MΩ	0.01MΩ	±(1.2%+3)
Capacitance	40nF/400nF/4μF	0.01nF/0.1nF/0.001μF	±(4.0%+5)
	40μF/400μF/4000μF	0.01μF/0.1μF/1μF	±(4.0%+5)
Frequency (A)	100Hz/1kHz	0.1Hz/0.001kHz	±(1.5%+5)
	>1kHz	0.01kHz	Referance
Frequency (V)	100Hz/1kHz/10kHz	0.1Hz/0.001kHz/0.01kHz	±(1.5%+5)
	>10kHz	0.01kHz	Referance
Frequency (Hz/Duty)	10Hz/100Hz/1000Hz/10kHz/	0.001Hz/0.01Hz/0.1Hz/1Hz	±(0.5%+3)
	100kHz/1000kHz/10MHz	0.01kHz/0.1kHz/0.001MHz	±(0.5%+3)
Duty Cycle	10%~95%	0.10%	±3.0%
Features			
Display Counts			4000
Jaw Opening			Φ26mm/1.0"
Auto Ranging	Auto & Manual		●
APO	Auto Power Off		●
REL	Relative Measurement		●
Diode	Open Voltage		3V
Continuity Buzzer	<50±20Ω		●
MAX/MIN	MAX/MIN Measurement		●
Data Hold			●
Display Backlight			●
Work Light			●
LBD	Low Battery Display		●
General			
Power Supply	3×15V AAA Batteries		
Product Size	208mm×78mm×53mm/8.2"×3.1''×1.4''		
Product Weight	245g/0.54b		
Certification	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		

AC/DC CLAMP METER 600A

MAIN FEATURES:
- Display backlight, Work Light
- Diode and Continuity detection
- NCV detection
- Diode and Continuity detection

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 26 mm / 1.0"	DC 600V AC 600 V	DC 600A AC 600A

■ **MS2109A**

MS2109A

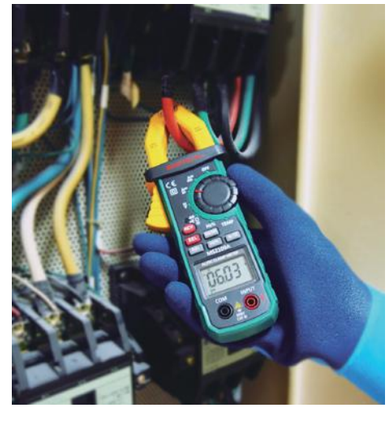
Specifications	Range	Resolution	Accuracy
DC Voltage	600mV/6V/60V/600V	0.1mV/0.001V/0.01V/1V	±(0.7%+2)
AC Voltage	6V/60V	0.001V/0.01V	±(0.8%+3)
	600V	1V	±(1.0%+4)
DC Current	60A/600A	0.01A/0.1A	±(3.0%+6)
AC Current	60A/600A	0.01A/0.1A	±(2.5%+6)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(0.8%+3)
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	±(1.2%+3)
Capacitance	40nF/400nF/4μF	0.01nF/0.1nF/0.001μF	±(4.0%+5)
	40μF/400μF/4000μF	0.01μF/0.1μF/1μF	±(4.0%+5)
Frequency (A)	100Hz/1kHz	0.01Hz/0.1Hz	±(1.5%+5)
Frequency (V)	100Hz/1kHz/10kHz	0.01Hz/0.1Hz/0.001kHz	±(1.5%+5)
Frequency (Hz/Duty)	10Hz/100Hz/1kHz/10kHz	0.001Hz/0.01Hz/0.1Hz/0.001kHz	±(0.5%+3)
	100kHz/1MHz/10MHz	0.01kHz/0.1kHz/0.001MHz	±(0.5%+3)
Duty Cycle	0.1%~99.9%	0.1%	±(3.0%+5)
Temperature	-20℃~0℃	1℃	±(3.0%+4)
	1℃~400℃	1℃	±(1.0%+3)
	401℃~1000℃	1℃	±(2.0%)
Features			
Display Counts			6000
Jaw Opening			Φ26mm/1.0"
Auto Ranging			Auto only
APO	Auto Power Off		●
NCV	Non-Contact Voltage Detector		●
REL	Relative Measurement		●
Diode	Open Voltage		2.7V
Continuity Buzzer			<50±20Ω
MAX / MIN			●
Data Hold			●
Display Backlight / Work Light			●
LBD	Low Battery Display		●
General			
Power Supply	3×1.5V AAA Batteries		
Product Size	218mm×78mm×35mm/8.9"×3.1"×1.4"		
Product Weight	239g/0.53lb		
Safety Rating	CAT Ⅲ 600V		
Certification	CE/ETL/RoHS		



CAT III 600V | CE | ETL Intertek | RoHS

Accesories included:

- Test Leads
- K Type Thermocouple
- Carry Bag
- Battery and User's Manual





AC/DC CLAMP METER 80A

MS2160

MAIN FEATURES:
- Display backlight, Work Light
- Diode and Continuity detection
- NCV detection
- Data Hold

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 24 mm / 0.9"	DC 600V AC 600 V	DC 80A AC 80A

MS2160

Specifications	Range	Resolution	Accuracy
DC Voltage	4V/40V/400V/600V	1mV/10mV/0.1V/1V	±(0.8%+3)
AC Voltage	4V/40V/400V/600V	1mV/10mV/0.1V/1V	±(1.0%+3)
DC Current	4A/40A/80A	1mA/10mA/0.1A	±(2.5%+5)
AC Current	4A/40A/80A	1mA/10mA/0.1A	±(2.5%+5)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	0.1Ω/1Ω/10Ω/0.1kΩ/1kΩ	±(0.8%+3)
	40MΩ	10kΩ	±(1.2%+3)
Capacitance	4nF/40nF/400nF/4μF	1pF/10pF/0.1nF/1nF	±(4.0%+3)
	40μF/400μF/4mF/40mF	10nF/0.1μF/1μF/10μF	±(4.0%+3)
Frequency (Clamp)	100Hz/1kHz	0.01Hz/0.1Hz	±(1.5%+5)
Frequency (Voltage)	100Hz/1kHz/10kHz	0.01Hz/0.1Hz/1Hz	±(1.5%+5)
Logic Frequency	10Hz/100Hz/1kHz/10kHz	0.001Hz/0.01Hz/0.1Hz/1Hz	±(0.5%+3)
	100kHz/1MHz/10MHz	0.01kHz/0.1kHz/1kHz	±(0.5%+3)
Duty Cycle	0.5%~99.5%	0.1%	±(3.0%)
Temperature	-20℃~1000℃	1℃	±(3.0%+3)
	-4℉~1832℉	1℉	±(3.0%+3)
Features			
Display Counts			4000
Jaw Opening			Φ24mm/0.9"
Auto Ranging	Auto & Manual		•
APO	Auto Power Off		•
NCV	Non-Contact Voltage Detector		•
Diode	Open Voltage		3.2V
Continuity Buzzer	<50Ω		•
Data Hold			•
Display Backlight			•
Work Light			•
LBD	Low Battery Display		•
General			
Power Supply	3×1.5V AAA Batteries		
Product Size	195mm×80mm×45mm/7.8"×3.1"×1.8"		
Product Weight	195g/0.43lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		

Accesories included:
- Test Leads
- K type Thermocouple
- Carry Bag
- Battery and User's Manual



TRMS AC/DC CLAMP METER 600A

MS2128

MAIN FEATURES:
- Display 6600 counts
- Auto & Manual Ranging
- Auto Power Off
- Inrush 100ms Current Integral

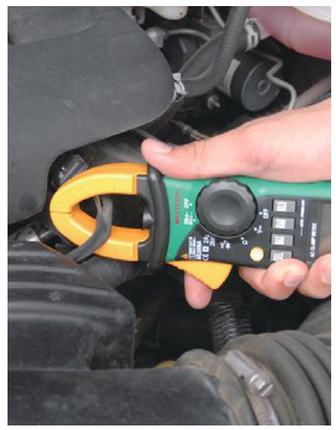
JAW SIZE:	VOLTAGE:	CURRENT:
Ø 26 mm / 1.0"	DC 600V AC 600 V	DC 400A AC 400A

MS2128A

Specifications	Range	Resolution	Accuracy
DC Voltage	400mV	0.1mV	±(1.0%+2)
	4V/40V/400V	0.001V/0.01V/0.1V	±(0.7%+2)
	600V	0.1V	±(0.8%+2)
AC Voltage	4V/40V/400V	0.001V/0.01V/0.1V	±(0.8%+3)
	600V	0.1V	±(1.0%+4)
DC Current	40A/400A	0.01A/0.1A	±(2.0%+6)
AC Current	40A/400A	0.01A/0.1A	±(2.0%+6)
Resistance	400Ω/4kΩ/40kΩ	0.1Ω/0.001kΩ/0.01kΩ	±(0.8%+3)
	400kΩ/4MΩ	0.1kΩ/0.001MΩ	±(0.8%+3)
	40MΩ	0.01MΩ	±(1.2%+3)
Capacitance	40nF/400nF/4μF	0.01nF/0.1nF/0.001μF	±(4.0%+5)
	40μF/400μF/4000μF	0.01μF/0.1μF/1μF	±(4.0%+5)
Frequency (A)	100Hz/1kHz	0.1Hz/0.001kHz	±(1.5%+5)
	>1kHz	0.01kHz	Referance
Frequency (V)	100Hz/1kHz/10kHz	0.1Hz/0.001kHz/0.01kHz	±(1.5%+5)
	>10kHz	0.01kHz	Referance
Frequency (Hz/Duty)	10Hz/100Hz/1000Hz/10kHz/	0.001Hz/0.01Hz/0.1Hz/1Hz	±(0.5%+3)
	100kHz/1000kHz/10MHz	0.01kHz/0.1kHz/0.001MHz	±(0.5%+3)
Duty Cycle	10%~95%	0.10%	±3.0%
Features			
Display Counts			4000
Jaw Opening			Φ26mm/1.0"
Auto Ranging	Auto & Manual		•
APO	Auto Power Off		•
REL	Relative Measurement		•
Diode	Open Voltage		3V
Continuity Buzzer	<50±20Ω		•
MAX/MIN	MAX/MIN Measurement		•
Data Hold			•
Display Backlight			•
Work Light			•
LBD	Low Battery Display		•
General			
Power Supply	3×15V AAA Batteries		
Product Size	208mm×78mm×53mm/8.2"×3.1''×1.4''		
Product Weight	245g/0.54b		
Certification	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 600V		



Accesories included:
- Test Leads
- Carry Bag
- Battery and User's Manual





TRMS AC/DC CLAMP METER 1000A

MS2125A

MAIN FEATURES:
- Display backlight, Work Light
- Capacitance and frequency
- NCV detection
- Inrush current

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 40 mm / 1.6"	DC 1000V AC 750V	DC 1000A AC 1000A

MS2125A

Specifications	Range	Resolution	Accuracy
DC Voltage	60mV/600mV/6V/60V/600V	0.01mV/0.1mV/0.001V/0.01V/0.1V	±(0.5%+5)
	1000V	1V	±(0.8%+4)
AC Voltage	60mV/600mV/6V/60V/600V	0.01mV/0.1mV/0.001V/0.01V/0.1V	±(0.6%+5)
	750V	1V	±(0.8%+4)
DC Current	60A/600A/1000A	0.01A/0.1A/1A	±(2.0%+8)
AC Current	60A/600A/1000A	0.01A/0.1A/1A	±(2.0%+8)
Inrush Current	60A/600A/1000A	0.01A/0.1A/1A	±(5.0%+60)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(0.8%+3)
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	±(2.0%+5)
Capacitance	10nF/100nF/1000nF/10μF	0.001nF/0.01nF/0.1nF/0.001μF	±(3.0%+5)
	100μF/1000μF/10mF/100mF	0.01μF/0.1μF/0.001mF/0.01mF	±(3.0%+5)
Frequency (A)	100Hz/1000Hz	0.01Hz/0.1Hz/	±(1.5%+5)
Frequency (V)	100Hz/1000Hz/10kHz	0.01Hz/0.1Hz/0.001kHz	±(1.5%+5)
Frequency	10Hz/100Hz/1000Hz/10kHz	0.01Hz/0.1Hz/0.001kHz/0.01kHz	±(0.3%+5)
(Hz/Duty)	100kHz/1000kHz/10MHz	0.1kHz/0.001MHz/0.01MHz	±(0.3%+5)
Duty Cycle	0.1%~99.9%	0.1%	±(3.0%)
Features			
Display Counts			6000
Jaw Opening			Φ40mm/1.6"
Auto Ranging	Auto & Manual		•
APO	Auto Power Off		•
NCV	Non-Contact Voltage Detector		•
REL	Relative Measurement		•
Diode	Open Voltage		3.2V
Continuity Buzzer			<50Ω
MAX/MIN			•
Data Hold			•
Display Backlight			•
Work Light			•
True RMS	True Root Mean Square		•
LBD	Low Battery Display		•
Inrush	Inrush Current Mesurement		•
General			
Power Supply	1×9V 6F22 Battery		
Product Size	238mm×92mm×50mm/9.37"×3.6"×1.9"		
Product Weight	386g/0.85lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 1000V CAT Ⅳ 600V		

CAT III 1000V · CAT IV 600V · CE · ETL c US Intertek · RoHS

Accesories included:
- Test Leads
- Carry Bag
- Battery and User's Manual

MASTECH®
BUILD TO PRECISION

LEAKAGE CLAMP METER

MS2006B

MAIN FEATURES:
- Data Hold
- Low battery display
- Auto power off
- 1μA resolution

JAW SIZE:	CURRENT:
Ø 31 mm / 1.2"	AC 60A

MS2006B

Specifications	Range	Resolution	Accuracy
AC Current	2mA	0.001mA	±(2.0%+10)
	20mA	0.01mA	±(2.0%+8)
	60A(<50A)	0.1A	±(2.0%+5)
	60A(>50A)	0.1A	±(3.0%+5)
Features			
Display Counts			2000
Jaw Opening			Φ31mm/1.2"
APO	Auto Power Off		•
Data Hold			•
LBD	Low Battery Display		•
General			
Power Supply	2×1.5V AAA Batteries		
Product Size	176mm×59mm×28mm/6.9"×2.3"×1.1"		
Product Weight	150g/0.33lb		
Certificate	RoHS		
Safety Rating	CAT Ⅲ 600V		



CAT III 600V · RoHS

Accesories included:
- Carry Bag
- Battery and User's Manual





LEAKAGE CLAMP METER WITH LOW-PASS FILTER

MS2016A

MAIN FEATURES:

- 1μA resolution
- Capacitance and temperature
- TRMS
- Display 4000 counts

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 30 mm / 1.2"	DC 600V AC 600V	AC 4mA~150A

Specifications	Range	Resolution	MS2016A Accuracy
DC Voltage	4V/40V/400V/600V	1mV/10mV/100mV/1V	±(0.5%+4)
AC Voltage	4V/40V/400V/600V	1mV/10mV/100mV/1V	±(1.0%+3)
AC Current	4mA/40mA (50/60Hz)	1μA/10μA	±(2.0%+10)
	400mA/4A/40A (50/60Hz)	0.1mA/1mA/10mA	±(2.0%+5)
	150A (50/60Hz)	0.1A	±(2.0%+10)
	4mA/40mA (40~1kHz)	1μA/10μA	±(3.0%+5)
	400mA/4A/40A (40~1kHz)	0.1mA/1mA/10mA	±(3.0%+3)
	150A (40~1kHz)	0.1A	±(3.0%+5)
Resistance	400Ω/4KΩ/40KΩ/400KΩ/4MΩ	0.1Ω/1Ω/10Ω/100Ω/1kΩ	±(0.8%+3)
	40MΩ	10kΩ	±(1.0%+3)
Capacitance	40nF/400nF/4uF	0.01nF/0.1nF/1nF	±(3.0%+8)
	40uF/400uF/4mF/40mF	10nF/100nF/1uF/10uF	±(3.0%+8)
Temperature	-20°C ~ 0°C/-4°F ~ 32°F	0.1℃/0.1℉	±(3.0%+5)
	0°C ~ 400°C/32°F ~ 752°F	0.1℃/0.1℉	±(1.5%+5)
	400°C ~ 1000°C/752°F ~ 1832°F	1℃/1℉	±(3.0%+5)
Features			
Display Counts			4000
Jaw Opening			Ø30mm/1.2"
Auto Ranging	Auto		●
APO	Auto Power Off		●
True RMS	For AC Voltage		●
LPF	Low Pass Filter Function (50/60Hz)		●
Zero	Zero adjustment		●
MAX/MIN			●
Diode	Open Voltage		3.2V
Continuity	Continuity Buzzer		<40Ω
Data Hold			●
LBD	Low Battery Display		●
General			
Power Supply	2×1.5V AAA Batteries		
Product Size	213mm×62mm×38mm/8.39''× 2.44''×1.5''		
Product Weight	238g/0.52lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT III 600V		

CAT III 1000V

Accesories included:

- Test Leads
- K Type Themocouple
- Baattery and User's Manual

THREE PHASE POWER CLAMP METER

MS2203
MS2205

MAIN FEATURES:

- Active, reactive and apparent power
- Power factor
- Active energy
- Harmonic measurement

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 50 mm / 2"	DC 600V AC 600V	AC 20A~1000A

Specifications	Range	Resolution	MS2203 Accuracy	MS2205 Accuracy
AC Voltage	100V/300V/600V	0.1V	±(1.2%+5)	
	80V/180V/400V/600V	0.1V/0.1V/1V/1V		±(1.0%+5)
AC Current	40A/100A/400A/1000A	0.1A/0.1A/0.1A/1A	±(2.0%+5)	
	20A/40A/100A/200A/450A/1000A	0.01A/0.01A/0.1A/0.1A/1A/1A		±(2.0%+5)
Active Power	4kW/10kW/40kW/100kW	0.01kW	±(3.0%+5)	
	600kW	0.1kW	±(3.0%+5)	
	30kW/60kW/120kW	0.01kW/0.01kW/0.1kW		±(3.0%+5)
	150kW/300kW/600kW	0.1kW		±(3.0%+5)
Apparent Power	4kVA/10kVA/40kVA/100kVA/	0.01kVA	±(3.0%+5)	
	600kVA	0.1kVA	±(3.0%+5)	
	3kVA/12kVA/30kVA	0.001kVA/0.01kVA/0.01kVA		±(3.0%+5)
	120kVA/150KVA/600kVA	0.1kVA		±(3.0%+5)
Reactive Power	4kVAr/10kVAr/40kVAr/100kVAr	0.01kVAr	±(4.0%+5)	
	600kVAr	0.1kVAr	±(4.0%+5)	
	3kVAr/12kVAr/30kVAr	0.001kVAr/0.01kVAr/0.01kVAr		±(3.0%+5)
	120kVAr/150KVAr/600kVAr	0.1kVAr		±(3.0%+5)
Power Factor	0.3~1	0.001	±(2.0%+2)	±(2.0%+2)
Active Energy	1kWh~9999kWh	0.001kWh	±(3.0%+2)	
Frequency	20Hz~1000Hz	0.1Hz	±(0.5%)	
	30Hz~1000Hz	0.1Hz		±(0.5%+1)
Harmonic Measurement 45Hz~65Hz (fundamental)	Harmonic Number :1			±(3.0%+10)
	Harmonic Number :2-6			±(3.5%+10)
	Harmonic Number :7-8			±(4.5%+10)
	Harmonic Number :9-10			±(5.0%+10)
	Harmonic Number :11-15			±(7.0%+10)
	Harmonic Number :16-20			±(10%+10)
Features				
Display Counts			9999	6000
Jaw Opening	Φ50mm/2.0"		●	●
Auto Ranging	Auto & Manual		●	●
APO	Auto Power Off			●
Data Logging	groups		28	100
True RMS	True root mean square		●	●
Bar Graph			●	
MAX/MIN	MAX/MIN Measurement		●	
Data Hold			●	●
Display Backlight			●	●
LBD	Low Battery Display		●	●
RS232 Interface	Windows OS		●	●
General				
Power Supply	4×1.5V AA Batteries	Product Size	300mm×103mm×51mm/11.8"×4.1"×2.0"	
Product Weight	640g/1.4lb	Certifiacte	RoHS	



CAT III 600V

Accesories included:



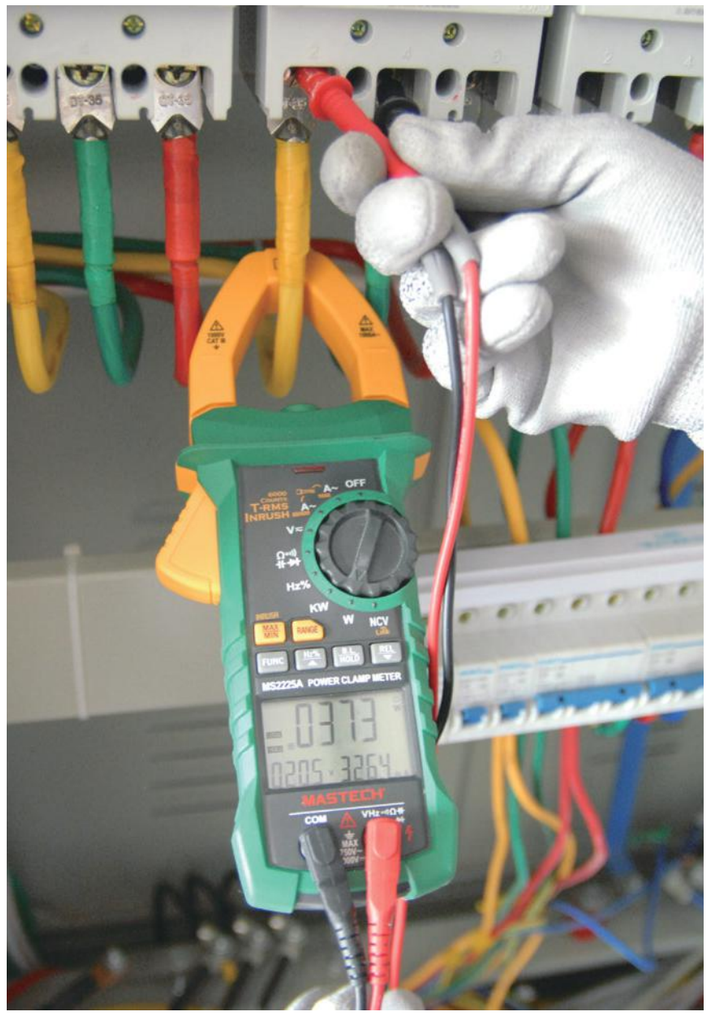


POWER CLAMP METER SMARTPHONE CONNECTION

■ MS2225A

MAIN FEATURES:
- TRMS
- NCV detection
- Harmonic measurement
- Power factor

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 40 mm / 1.6"	DC 1000V AC 1000V	AC 1000A



CAT III 1000V

Accesories included:
- Test Leads
- Test Clips
- Carrying Bag
- Battery and User's Manual

*For further information about SMARTPHONE Connection please check page 4.

MS2225A

Specifications	Range	Resolution	Accuracy
DC Voltage	6V/60V/600V	0.001V/0.01V/0.1V	±(0.5%+5)
	1000V	1V	±(0.8%+4)
AC Voltage	6V/60V/600V	0.001V/0.01V/0.1V	±(0.6%+5)
	750V	1V	±(0.8%+4)
AC Current	60A/600A/1000A	0.01A/0.1A/1A	±(2.0%+8)
Inrush Current	60A/600A/1000A	0.01A/0.1A/1A	±(5.0%+60)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(0.8%+3)
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	±(2.0%+5)
Capacitance	9.999nF/99.99nF/999.9nF/9.999μF	0.001nF/0.01nF/0.1nF/0.001μF	±(3.0%+5)
	99.99μF/999.9μF/9.999mF/99.99mF	0.01μF/0.1μF/0.001mF/0.01mF	±(3.0%+5)
Active Power	3.0W/100.0W/4000W/ 10.0kW/100.0kW/750kW	0.01W/0.1W/1W/ 0.01kW/0.1kW/1kW	±(3.0%+5)
Apparent Power	3.0VA/100.0VA/4000VA/ 10.0kVA/100.0kVA/750kVA	0.01VA/0.1VA/1VA/ 0.01kVA/0.1kVA/1kVA	±(3.0%+5)
Reactive Power	3.0VAr/100.0VAr/4000VAr/ 10.0kVAr/100.0kVAr/750kVAr	0.01VAr/0.1VAr/1VAr/ 0.01kVAr/0.1kVAr/1kVAr	±(3.0%+5)
Power Factor	0.3~1	0.001	±(3.0%+5)
Frequency (V)	99.99Hz/999.9Hz/9.999kHz/ > 10kHz	0.01Hz/0.1Hz/0.001kHZ/ 0.01kHz	±(1.5%+5)
Frequency (A)	99.99Hz/999.9Hz/ > 1kHz	0.01Hz/0.1Hz/ 0.001kHz	±(1.5%+5)
Frequency (W)	40~1kHz	0.1Hz	±(0.5%+1)
Frequency (KW)	40~1kHz	0.1Hz	±(0.5%+1)
Frequency (Hz/Duty)	10Hz/100Hz/1000Hz/10kHz	0.001Hz/0.01Hz/0.1Hz/0.001kHz	±(0.3%+5)
	100kHz/1000kHz/10MHz	0.01kHz/0.1kHz/0.001MHz	±(0.3%+5)
Duty Cycle	0.1%-99.9%	0.1%	±(3.0%+3)
Harmonic Measurement 45Hz~65Hz (fundamental)	Harmonic Number:1		±(3.0%+10)
	Harmonic Number:2~6		±(3.5%+10)
	Harmonic Number:7~8		±(4.5%+10)
	Harmonic Number:9~10		±(5.0%+10)
	Harmonic Number:11~15		±(7.0%+10)
	Harmonic Number:16~20		±(10%+10)
Features			
Display Counts			6000
Jaw Opening			Φ40mm/1.6"
Auto Ranging	Auto & Manual		●
APO	Auto Power Off		●
True RMS	True root mean suqare		●
Diode	Open voltage		3.2V
Continuity	Continuity Buzzer		<50Ω
Inrush	Inrush Current measurement		●
MAX/MIN			●
Data Hold			●
REL	Relative measurement		●
Display Backlight			●
Worklight			●
LBD	Low Battery Display		●
NCV	Non-Contact Voltage Detector		●
Wireless	APP Connection		●
General			
Power Supply	9V 6F22 Battery		
Product Size	250mm×98mm×53mm/9.84''×3.78''×2.09''		
Product Weight	450g/0.99lb		
Certifiacte	CE/ETL/RoHS		
Safety Rating	CAT Ⅲ 1000V		



CAT III 600V · CE · ETL c Intertek us · RoHS

Accesories included:

- Test Leads
- K Type Themocouple
- Baattery and User's Manual
- Carry Bag

OPEN-JAW DIGITAL CLAMP METER

■ **MS2601**

MAIN FEATURES:

- Display backlight, Work Light
- Diode and Continuity detection
- NCV detection
- Data Hold

JAW SIZE:	VOLTAGE:	CURRENT:
Ø 12 mm / 0.5"	DC 600V AC 600 V	AC 200A

		MS2601	
Specifications	Range	Resolution	Accuracy
DC Voltage	600mV/6V/60V/600V	0.1mV/0.001V/0.01V/0.1V	±(0.7%+3)
AC Voltage	6V/60V/600V	0.001V/0.01V/0.1V	±(0.8%+3)
LO-Z(DCV/ACV)	1V~600V	0.001V	±(2.0%+3)
DC Current	600uA/1000uA	0.1uA/1uA	±(1.0%+4)
AC Current	200A	0.1A	±(3.0%+3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(0.8%+3)
	6MΩ/60MΩ	0.001MΩ/0.01MΩ	±(1.2%+3)
Capacitance	60nF/600nF/6μF/60μF	0.01nF/0.1nF/0.001μF	±(4.0%+5)
	600μF/6000μF/60mF	0.01μF/0.1μF/1μF/0.01mF	±(4.0%+5)
Frequency (Hz/Duty)	60Hz/600Hz/6kHz/60kHz	0.01Hz/0.1Hz/0.001kHz/0.01kHz	±(0.3%+5)
	600kHz/6MHz/60MHz	0.1kHz/0.001MHz/0.01MHz	±(0.3%+5)
Frequency (A)	100Hz/1000Hz	0.01Hz/0.1Hz	±(1.5%+5)
Frequency (V)	100Hz/1000Hz/10kHz	0.01Hz/0.1Hz/0.001kHz	±(1.5%+5)
Duty Cycle	5%~95%	0.1%	±(0.3%)
Temperature	-20℃~0℃/-4℉~32℉	1℃/1℉	±(3.0%+2)
	0℃~400℃/32℉~752℉	1℃/1℉	±(2.0%+2)
Features			
Display Counts			6000
Jaw Opening			Φ12mm/0.5"
Auto Ranging	Auto & Manual		●
APO	Auto Power Off		●
NCV	Non-Contact Voltage Detector		●
Diode	Open Voltage		3.2V
Continuity Buzzer			<50Ω
Data Hold			●
Display Backlight			●
Work Light			●
LBD	Low Battery Display		●
General			
Power Supply	1×9V 6F22 Battery		
Product Weight	265g/0.58lb		
Product Size	201mm×65mm×43mm/ 7.7"×2.6"×1.7"		
Certificate	CE / ETL /RoHS		
Safety Rating	CAT Ⅲ 600V		

CURRENT TRANSDUCER FOR DIGITAL MULTIMETERS

■ **MS3300**
■ **MS3302**

MAIN FEATURES:

- Compatible with any digital multimeter with mínimum resolution of 1mV in voltage measurement

JAW SIZE:	CURRENT:
Ø 55 mm / 2.2"	1000A AC/DC
Ø 28 mm / 1.1"	400A AC

		MS3300
Specifications	Range	Accuracy
DC Current	1000A	±(3.0%+5)
AC Current	1000A	±(3.0%+5)
Output	DC 1mV / A	
	AC 1mV / A	
Features		
Jaw Opening	Φ55mm/2.2"	
True RMS	True Root Mean Square	
DCA ZERO	Zero adjust	
Frequency	DC/AC 50~60Hz	
General		
Power Supply	1×9V 6F22 Battery	
Product Size	256mm×104mm×47mm/9.3"×3.86"×1.9"	
Product Weight	520g/1.1lb	
Certificate	RoHS	
Safety Rating	CAT Ⅱ 600V	

		MS3302
Specifications	Range	Accuracy
AC Current	0.1A~400A	±(2.0%+5)
Output	10mV/A	±(2.0%+5)
	1mV/A	±(2.0%+5)
Features		
Jaw Opening	Φ28mm/1.1"	
General		
Power Supply	N/A	
Product Size	143mm×64mm×30mm/5.6"×2.5"×1.2"	
Product Weight	185g/0.4lb	
Certificate	RoHS	
Safety Rating	CAT Ⅱ 600V	



CAT II 600V · RoHS

Accesories included:

- Wrapping Case
- Battery and User's Manual





CAT II 600V

AC LINE SPLITTER

MAIN FEATURES:
-voltage measurement terminals
-X1 and X10 current measurement terminals

- **MS922A**
- **MS922D**
- **MS922E**

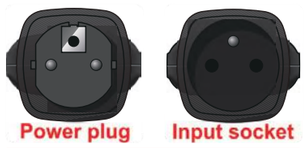
		MS922A	MS922D	MS922E
Specifications				
AC Voltage		125V	250V	250V
AC Current			15A	
X1 current terminal			•	
X10 current terminal			•	
Features				
Allows for Easy AC Current Measurements			•	
Provides the Ability to Safely Measure Current			•	
Separates the Hot/Live Conductor from the Neutral and Ground			•	
Voltage check sockets for easy power calculations			•	
General				
Product Size	171mm×57mm×48mm/ 6.7''×2.2''×1.9"	•		
	200 mm×57mm×48mm/ 7.8''×2.2''×2.9"		•	
	173mm×57mm×48mm/ 6.8''×2.2''×1.9"			•
Product Weight		131g/0.29lb	140g/0.3lb	131g/0.29lb
Certificate		ETL/RoHS	RoHS	RoHS
Safety Rating		CAT II 600V	CAT II 600V	CAT II 600V

Accesories included:

- User's Manual



MS922A



MS922D



MS922E

Voltage Testers

Non contact voltage testers | Two pole voltage testers





3 LEVELS ADJUSTABLE NCVT WITH LASER

MAIN FEATURES:
- 3 sensitivity levels
- Work light
- IP67
- Laser Pointer

■ **MS8916A**

Specifications	
Non-Contact AC Voltage Detector	●
AC Voltage Range	24~1000V
Frequency	50Hz~60Hz
Sound Indication	●
Light Indication	3 LED's bar
Laser Pointer	●
Double Molded Case	●
AC Voltage Sensitivity Adjustment	● (3 levels)
Low Battery Indication	●
Auto Power Off	●
Protection degree	IP67
Operating Temperature	-10°C~50°C
General	
Storage Temperature	-20°C~60°C
Humidity	<85%RH
Altitude	<2000m
Product Size	153.0mmx26.6mmx28.5mm/6.02"x1.05"x1.12"
Product Weight	42g/0.09lb
Certificate	CE/ETL/RoHS
Safety Rating	CAT IV 1000V
Power Supply	2×1.5V AAA

CAT IV 1000V

Accesories included:
- Battery and User's Manual

NON CONTACT AC VOLTAGE TESTER

MAIN FEATURES:
- Sound and light indication
- Fixed sensitivity

■ **MS8900A**
■ **MS8900C**



Specifications	MS8900A	M8900C
Non-Contact AC Voltage Detector	●	
AC Voltage Range	90~1000V	100~240V
Frequency	50Hz~60Hz	
Sound and Light Indication	●	
Red and Green LED Light	●	
Double Molded Case	●	
Operating Temperature	0°C~50°C	
General		
Storage Temperature	-20°C~60°C	
Humidity	<85%RH	
Altitude	<2000m	
Product Size	157mm×24mm×20mm/6.18"×0.94"×0.78"	
Product Weight	42g/0.09lb	
Certificate	CE/ETL/RoHS	
Safety Rating	CAT Ⅱ 1000V/CAT Ⅲ 600V	
Power Supply	2×1.5V AAA	2×1.5V AAA

CAT II 1000V
CAT III 600V

Accesories included:
- Battery and User's Manual





ADJUSTABLE NON CONTACT AC VOLTAGE TESTER

MAIN FEATURES:
- Sound and light indication
- Adjustable sensitivity

■ **MS8902A**
■ **MS8902B**

	MS8902A	MS8902B
Specifications		
Non-Contact AC Voltage Detector	●	
AC Voltage Range	12~1000V	20~1000V
Frequency	50Hz~500Hz	
Sound and light Indication	●	
Red and Green LED Light	●	
Double Molded Case	●	
Metal Detecting Distance	<20mm	
AC Voltage Sensitivity adjustment	●	
Memory Sensitivity function	●	
Auto Power Off	●	
Low Battery Indication	●	
Operating Temperature	-10°C~50°C	
General		
Storage Temperature	-20°C~60°C	
Humidity	<85%RH	
Altitude	<2000m	
Product Size	157mm×24mm×20 mm/6.18"×0.94"×0.78"	
Product Weight	42g/0.09lb	
Certificate	CE/ETL/RoHS	
Safety Rating	CAT Ⅱ 1000V/CAT Ⅲ 600V	
Power Supply	2×1.5V AAA	2×12V A23S

CAT II 1000V CAT III 600V

Accesories included:
- Battery and User's Manual



MASTECH®
BUILD TO PRECISION

NCVT WITH WORK LIGHT

MAIN FEATURES:
- 50-1000V
- Work light
- Sound and light indication

■ **MS8907**

		MS8907
Specifications		
NCV	Non-Contact AC Voltage Detector	●
AC Voltage		50~1000V
Frequency	50Hz/60Hz	●
Indication	Sound and Light	●
LED	Red and Green LED Light	●
Altitude	<2000m	●
Operation TEMP	-10°C~50°C	●
Storage TEMP	-20°C~60°C	●
Humidity	<85%RH	●
Work Light		●
General		
Power Supply	2×1.5V AAA Batteries	
Product Size	157mm×24mm×20mm/6.2"×0.95"×0.79"	
Product Weight	42g/0.09 lb	
Certificate	CE/ETL/RoHS	
Safety Rating	CAT Ⅱ 1000V/CAT Ⅲ 600V	



CAT II 1000V CAT III 600V

Accesories included:
- Battery and User's Manual



NCVT WITH IR THERMOMETER

MAIN FEATURES:
- 12V - 1000V
- Adjustable sensitivity
- IR thermometer
- Work light

■ **MS6580B**

Specifications	Range	MS6580B Accuracy
Temperature	-20°C~0°C	±3°C
	-4°F~32°F	±5.5°F
	0°C~330°C	±(1.5%+2°C)
	32°F~626°F	±(1.5%+3°F)
Resolution		0.1°C/0.1°F
Repeatability		±0.1°C
Emissitivy		0.95
Optical Resolution		4 : 1
AC Voltage Detector	12-1000V / 50-60Hz	•
Features		
NCV	Non-Contact Voltage Detector	•
NCV Sensitivity	4Levels	•
IRT	Infrared Temperature	•
Spectral Response	8-14 μm	•
MAX Altitude	2000m	•
Laser	<1mW/630-670nm	•
Laser Pointer		•
℃/℉ Selection		•
Response Time	0.5 second	•
Relative Humidity	10%~90%	•
Reading Hold		•
Work Light		•
Display Backlight		•
LBD	Low Battery Display	•
General		
Power Supply	2×1.5V AAA Battery	
Product Size	152mm×31mm×31mm/6"×1.22"×1.22"	
Product Weight	220g/0.44lb	
The Default Temperature	(°C)Centigrade/(°F)Fahrenheit	
Certification	CE/ETL/RoHS	
Safety Rating	CAT II 1000V/CAT III 600V	

CAT II 1000V CAT III 600V CE ETL Intertek RoHS

Accesories included:
- Battery and User's Manual







TWO POLE VOLTAGE TESTERS

MAIN FEATURES:
- 12V - 400V AC/DC
- LED indicator
- RCD test

■ **MS8922A**
■ **MS8922B**

Specifications		MS8922A	MS8922B
AC/DC Voltage LED Steps	±12V, 24V, 50V, 120V, 230V, 400V	•	•
Accuracy	-30%~0% of indication	•	•
Frequency	50Hz/60Hz	•	•
RCD	RCD Test function		•
Features			
Altitude	<2000m	•	•
Operation Time	Maximum 30s	•	•
Recovery Time	10 minutes	•	•
Relative Humidity	<80%RH	•	•
Temperature Range	-10~55℃/14~131℉	•	•
General			
Power Supply	N/A		
Product Size	223mmx40mmx32 mm/8.78"x1.57"x1.26"		
Product Weight	98.5g/0.26lb		
Certificate	CE/ETL/RoHS		
Safety Rating	CAT III 400V		

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BUILD TO PRECISION

MS8922A



MS8922B



CAT II 1000V CAT III 600V CE ETL Intertek RoHS

Accesories included:
- Battery and User's Manual

Circuit Testers

Wire testers and trackers | Socket testers | Circuit breaker finders



MASTECH®
BUILD TO PRECISION

NETWORK CABLE TESTERS

MAIN FEATURES:
- RJ45 and coaxial cables (BNC) - Up to 200m
- Cable shield testing

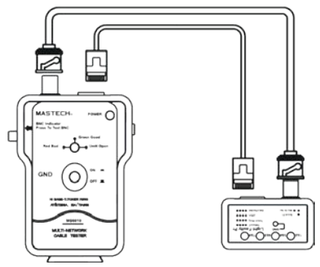
- **MS6810**
- **MS6811**

	MS6810	MS6811
Specifications		
Twisted-wire-pair cables (RJ45): 10Base-T,T568A, T568B, Token Ring	•	•
Testing Cables Shield Integrity	•	•
Coaxial Cable (BNC)	•	
Low Battery Indicator		•
Measurement Distance of Cables	200m(max)	200m(max)
General		
Power Supply	1×9V 6F22 Battery	1×6V 4LR44/4AG13 Battery
Product Size	153mm×74mm×31mm / 6.0"×2.9"×1.2"	125mm×55mm×30mm / 4.9"×2.2"×1.2"
Product Weight	120g/0.26lb	106g/0.23lb
Certificate	CE/ETL/RoHS	CE/ETL/RoHS

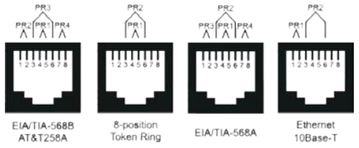
MS6810



Annex A



Annex B



Fault details

Fig.1 SHORT

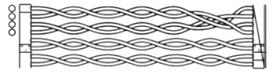


Fig.2 MISWIRE

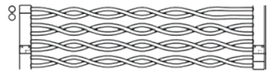


Fig.3 REVERSED

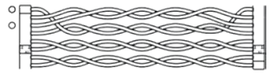
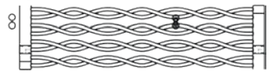


Fig.4 SPLIT PAIRS



MS6811



Accesories included:

- Battery and User's Manual



CABLE TRACKER

MS6812A

MAIN FEATURES:
- RJ11 and power cable tracking
- State of the telephone line
- Continuity function

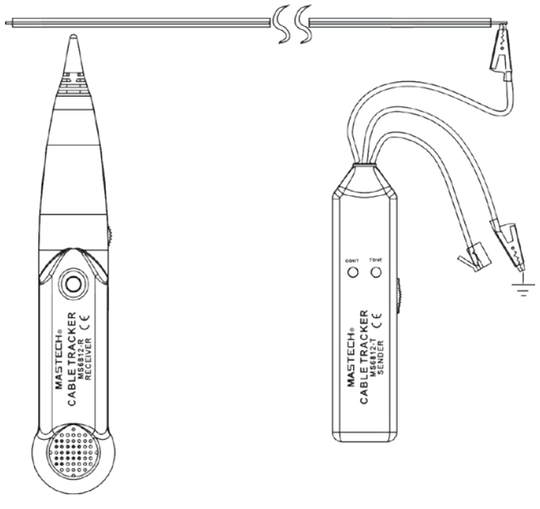
MS6812A

Applications
- Judge Continuity of the Cables or Wires
- Track the Cables or Wires, and Diagnose the Break Point
- Receive the Tone Signal on the Cables or Wires(Telephone Line)
- Identify the State in the Working Telephone Line(Clear, Ringing, Busy)
- Send a Single Solid or a Dual Alternating Tone to the Target Cables or Wires

Features	
Top Generator Ouput	Single (1500Hz)
(Square Waveform):	Dual (1300~1500Hz)
Send Tone Frequency	1.5kHz
Receive Frequency	100Hz~300kHz
Instruction	Sound and Light
LED	Cont and Tone LED Light
General	
Power Supply	2x9V 6F22 Batteries
Receiver Size	238mm×43mm×26mm/9.4"×1.7"×1.0"
Emitter Size	145mm×35mm×25mm/5.7"×1.38"×0.98"
Receiver Weight	71g/0.16lb
Emitter Weight	87g/0.2lb
Certifiacte	RoHS

RoHS

Accesories included:
- Battery and User's Manual



MULTIFUNCTION CABLE TRACKER

MS6813

MAIN FEATURES:
- RJ11, RJ45 and coaxial cables
- State of the telephone line
- Cable tester and tracker

MS6813

Applications
- Testing Coaxial Cable (BNC)
- Twisted-wire-pair cables (RJ45): 10Base-T,T568A, T568B, Token Ring
- Testing Cable's Shield Integrity
- Judge Continuity of the Cables or Wires
- Track the cables or wires, and diagnose the break Point
- Receive the tone signal on the cables or wires(telephone line)
- Identify the state in the working telephone line(clear, ringing, busy)
- Send a Single Solid or a Dual Alternating Tone to the Target Cables or Wires

Features	
Send tone frequency: 1-5kHz	
Receive frequency: 100Hz~300kHz	
General	
Power Supply	2×9V 6F22
Product Size	206mm×84mm×55mm/8.1"×3.3"×2.1"
Product Weight	330g/0.72lb
Certificate	CE/ETL/RoHS



CE ETL Intertek RoHS PATENTED

Accesories included:
- **Carry Bag**
- Battery and User's Manual





ADVANCED CABLE LOCATOR

MS6818

MAIN FEATURES:
- One or dual-pole application
- Adjustable sensitivity in transmitter an receiver
- Circuit breaker finder function

Applications and Feature :
- Find the Breaks or Shorts in Cable in the wall or Earth
- Track Cables in the wall or Earth
- Find the Fuse and Safeguard
- Find the Breaks or Shorts in Conduit under the Floor
- Track a Metal Conduit in the Project of ware or hot
- Sensitivity of transmitter or receiver can be selected
- Auto Ranging, Auto Power Off, Backlight and Worklight

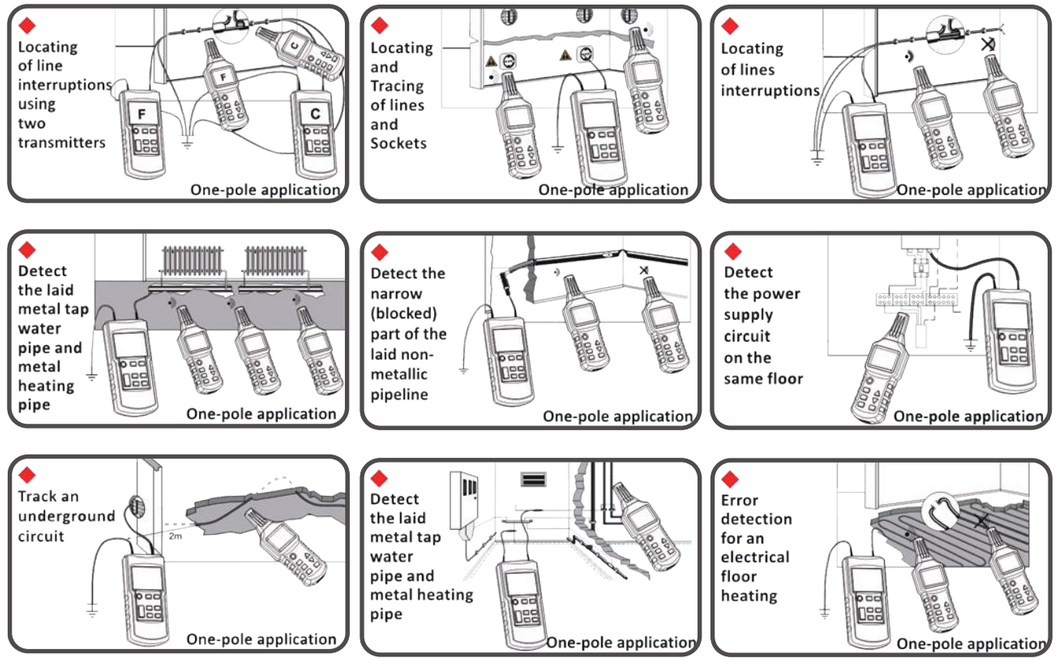
Technical Parameters of Transmitter	
Output Signal	125kHz
External Voltage	DC12~400V AC12~400V(50~60Hz) ±2.5%
Fuse	F0.5A 1000V
MIN Current	about 31mA
MAX Current	about 115mA
In Work	0~40℃, with MAX relative humidity of 80%
In Storage	-20~60℃, with MAX relative humidity of 80%
Altitude	<2000m
Product Size	190mm×89mm×42.5mm/7.48"×3.5"×1.67"
Product Weight	420g/0.92lb
Power Supply	1×9V 6F22 Battery
Technical Parameters of Receiver	
Depth of Tracking	The Depth of Tracking Depends on the Material and Specific Applications
Cable	Single pole application: about 0~2m
Locating	Dual pole application: about 0~0.5m
Mode	Single loop line: Up to 2.5m
MIN Current	about 32mA
MAX Current	about 89mA
In Work	0~40℃, with MAX relative humidity of 80%
In Storage	-20~60℃, with MAX relative humidity of 80%
Altitude	<2000m
Product Size	241.5mm×78mm×38.5mm/9.5"×3"×1.5"
Product Weight	350g/0.77lb
Power Supply	6×1.5V AAA Battery
General	
Certificate	CE/ETL/RoHS
Safety Rating	CAT III 300V

CAT III 300V

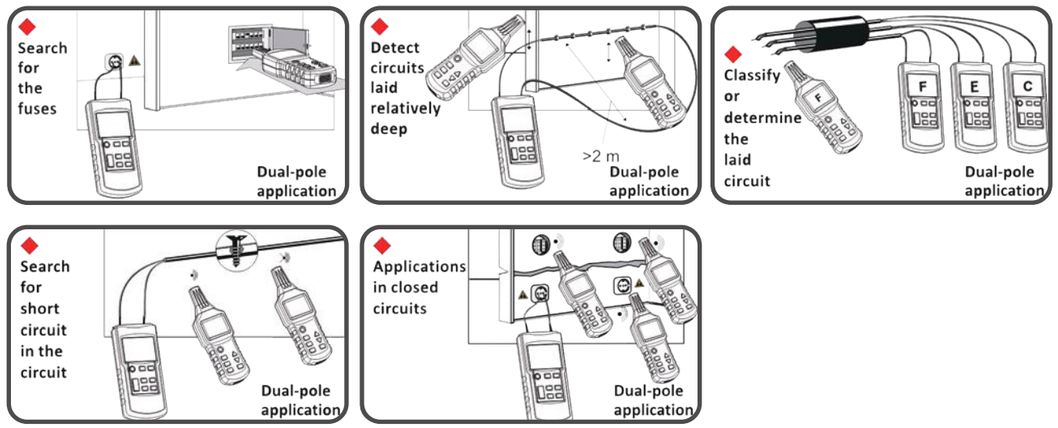
Accesories included:
- Test Leads
- Test Probe
- Alligator Clip
- Grounding Rod
- Package Bag
- Battery and User's Manual

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● One-pole application



● Dual-pole application



SOCKET TESTER

- **MS6860D**
- **MS6860E**



MS6860D

VOLTAGE:
AC 230 V



MS6860E

VOLTAGE:
AC 230 V

	MS6860D	MS6860E
Specifications		
Voltage Range	230V	
LED indication of the socket´s wiring	Correct	
	Missing Earth	
	Live-Earth Reverse	
	Live-Neutral Reverse	
	Missing Neutral	
General		
Product Size	68mm×60mm×56mm/2.67"×2.36"×2.2"	
Product Weight	60g/0.13lb	
Certification	CE/ETL/RoHS	
Safety Rating	CAT II 230V	





CAT II 230V · CE · RoHS · ETL Intertek

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SOCKET TESTER

- **MS112**
- **MS102**



MS112

3 WIRE:
AC 125 V



MS102

3 WIRE / GFCI:
AC 125 V

		MS102	MS112
Specifications		**Range**	
AC Voltage		125V	125V
Operating Temperature		0~40℃	0~40℃
Operating Humidity		<80% RH	<80% RH
GFCI		•	
Indicator	**Fault**	**Reason for Wiring Fault**	
○ ● ○	Open Ground	Ground contact not connected	
○ ○ ●	Open Neutral	Neutral contact not connected	
○ ○ ○	Open Hot	Hot contact not connected	
● ○ ●	Hot/Ground Reverse	Hot and ground contacts reversed	
● ● ○	Hot/Neutral Reverse	Hot and neutral contacts reversed	
○ ● ●	Correct	Receptacle is wired correctly	
General			
Product Size		82mm×42mm×32mm/3.2"×1.65"×1.26"	
Product Weight		45g/0.1lb	
Certification		ETL/RoHS	
Safety Rating		CAT II 125V	



CAT II 125V · ETL Intertek · RoHS





MS5902RTD

VOLTAGE:
AC 230 V







MS5902RTE

VOLTAGE:
AC 230 V

MS5902RTF

VOLTAGE:
AC 120 V

CIRCUIT BREAKER FINDER

- MS5902RTD
- MS5902RTE
- MS5902RTF

General		
Power Supply	1x9V 6F22 Battery	
Product Size	Receiver	198x40x50mm 7.8"x1.57"x1.97"
	Transmitter (MS5902RTD)	71x64x55mm 2.8"x2.5"x2.16"
	Transmitter (MS5902RTE)	
	Transmitter (MS5902RTF)	82x42x32mm 3.2"x1.65"x1.26"
Product Weight	Receiver	126g/0.28lb
	Transmitter (MS5902RTD)	60g/0.13lb
	Transmitter (MS5902RTE)	
	Transmitter (MS5902RTF)	35g/0.1lb
Certification	Receiver + Transmitter	CE/ETL/RoHS
Safety Rating		CAT II 600V

Transmitter Model	D	E	F
AC Voltage Range	230V	230V	120V
GFCI			•
Socket Test	•	•	•
Receiver + Transmitter	Quickly and easily identify the breaker connected to a specific socket		
Transmitter (Socket Tester Mode) LED indication of the socket´s wiring	Correct Missing earth Live-earth reverse Live-neutral reverse Missing neutral		
Receiver	Work Light at the Head of MS5902R Points to the Target Area. Low Battery Indication Buzzer and LED instructions		





MS5905RTD

VOLTAGE:
AC 230 V





MS5905RTE

VOLTAGE:
AC 230 V

MS5905RTB

VOLTAGE:
AC 125 V

CIRCUIT BREAKER FINDER WITH NCV

- MS5905RTD
- MS5905RTE
- MS5905RTB

General		
Power Supply	1x9V 6F22 Battery	
Product Size	Receiver	177x46x31mm 6.97"x1.81"x1.22"
	Transmitter (MS5905RTB)	82x42x32mm 3.2"x1.65"x1.26"
	Transmitter (MS5905RTD)	71x64x55mm 2.8"x2.5"x2.16"
	Transmitter (MS5905RTE)	
Product Weight	Receiver	130g/0.29lb
	Transmitter (MS5905RTB)	35g/0.1lb
	Transmitter (MS5905RTD)	63g/0.14lb
	Transmitter (MS5905RTE)	
Certification	Receiver + Transmitter	CE/ETL/RoHS
Safety Rating		CAT II 600V

Transmitter Model	B	D	E
AC Voltage Range	125V	230V	230V
GFCI	•		
Socket Tests	•	•	•
Receiver + Transmitter	Quickly and easily identify the breaker connected to a specific socket		
Transmitter (Socket Tester Mode) LED indication of the socket´s wiring	Correct Missing earth Live-earth reverse Live-neutral reverse Missing neutral		
Receiver built-in Non-Contact Voltage Detector (NCV)	Voltage Range: AC90V~AC600V Frequency: 50Hz~60Hz Detecting Distance: <30mm		
Receiver	Buzzer and LED instructions		

Thermometers

IR thermometers | Digital thermometers



INFRARED THERMOMETER (BODY-FOREHEAD)

IR TEMPERATURE:
32°C~42°C
89°F~108°F

■ MS6518

Specifications	Range	MS6518 Accuracy
Temperature(Body)	32°C~42°C/89°F~108°F	±0.4°C/±0.7°F
Resolution		0.1°C/0.1°F
Repeatability		±0.1°C
Features		
Spectral Response	8-14 μm	•
MAX Distance	15cm	•
°C / °F Selection		•
Response Time	1 second	•
Relative Humidity	10%~90%	•
Data Logging	10 groups	•
Reading Hold		•
MEM		•
Display Backlight		•
LBD	Low Battery Display	•
General		
Power Supply	1×9V/6F22 Battery	
Product Size	142mm×92mm×47mm/5.6"×3.6"×1.85"	
Product Weight	135g/0.3lb	
Certificate	CE/ETL/RoHS	



CE ETL Intertek RoHS

Accesories included:

- Battery and User's manual





INFRARED CAMERA

IR TEMP:
- 20ºC ~ 400ºC
- 4ºF ~ 752ºF

MS6561

IR Temperature	
Temperature range	-20°C~400°C，-4°F~752°F
Accuracy	±2% or 2°C
Resolution	0.1 °C/°F
Emissivity	0.1~0.99
Distance to Spot Ratio (D:S)	30:1
React time	150ms
Spectral Response	8-14μm
Laser pointer	Dual Diverging Lasers, Frames Temp Measurement Area
Thermal Imaging	
Space Resolution	11mrad
Shutter	auto
Image resolution (W×H)	4800 Pixels (80×60)
Spectral Response	8-14μm
Field of view (H×W)	50°×38.6°
Sensitivity	150mk
Frame rate	9Hz
Palette	Red, Rainbow, Black Heat, White Heat
Storage format	BMP Image
Digital Camera	
Pixels	2 million pixels
Display mode	Thermal image / Mix / Digital camera
Storage	10,000 pictures
Photo compare	Thermal image comparing to Digital image
Features	
Display Type	2.4" TFT LCD
Display resolution（W×H）	76800 Pixels (240×320)
APO	YES
Power interface	Micro-USB
Battery life	Ordinary Use: 5 days Continuous Use: 8 hours
Data transmission	Micro-USB 2.0
Memory Card	8GB microSD
Operating temperature	-1~45°C, 14~113°F
Anti drop test	2 meter
Tripod base	YES
IP Level	IP54
General	
Power Supply	Lithium battery 3.7V, 2600mAh
Product Size（H*W*D）	190.0mm×63.0mm×103mm/7.48''×2.48''×4.0''
Product Weight	335g/0.74lb
Certification	CE/CB/FCC/FDA

Accesories included:
- Wrapping case
- Battery and User's Manual

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Black & White



Rainbow



Red



It is the best choice for you to have a non-invasive and non-destructive way to aid early detection of potentially big problems.

- Pipework
Infrared thermography is a great tool for detecting faults in pipes and insulation. Heat exchangers are regularly checked with infrared to detect blocked pipes. A thermal imaging can quickly give an overview of the entire installation and it can expedite inspection of the equipment.

- Locate electrical problems
Infrared thermography makes technician or electrician easy to detect the issues with electrical connections, wiring or other system components, as they are clearly highlighted as "hot spots" with thermal imaging. You can clearly see the overheated connections on the thermal image.



INFRARED THERMOMETER

■ MS6522B

IR TEMPERATURE:
- 500ºC / 932ºF
- 0.1ºC / 0.1ºF resolution
- 10:1
- Emissivity 0.95

		MS6522B
Specifications	**Range**	**Accuracy**
IR Temperature	-20~0°C/-4~32°F	±3°C/ ±5°F
	0~500°C	±(2%+2°C)
	32~932°F	±(2%+3°F)
Resolution		0.1°C/0.1°F
Repeatability		±0.1°C
Emissivity		0.95
Optical Resolution		10:1
Features		
Spectral Response	8-14 µm	•
Laser	<1mW / 630-670nm	•
°C/°F Selection		•
Response Time	1 second	•
Relative Humidity	10%~90%	•
Laser Target Pointer		•
Reading Hold		•
MAX		•
MIN/AVG		•
Display Backlight		•
LBD	Low Battery Display	•
General		
Power supply	2x1.5V AAA Batteries	
Product Size	143mmx99mmx47mm/5.6"x3.9"x1.85"	
Product Weight	135g/0.3lb	
The Defalt Temperature	(°C)Centigrade/(°F)Fahrenheit	
Certificate	CE/ETL/RoHS/FDA	

Accesories included:
- Battery and User's Manual



INFRARED THERMOMETER

■ MS6531B

IR TEMPERATURE:
-40ºC-800ºC
-40ºC-1472ºF

MAIN FEATURES:
-0.1-1.00 adjustable emissivity
-colour display

		MS6531B
Specifications	**Range**	**Accuracy**
IRT Temperature	-40~0°C/-40~32°F	±4°C/ ±7.2°F
	0~400°C	±(1.5%+2°C)
	32~752°F	±(1.5%+3.6°F)
	400~800°C	±(2.0%+2°C)
	752~1472°F	±(2.0%+3.6°F)
Resolution	<199.9	0.1°C/0.1°F
	>199.9	1°C/1°F
Repeatability		±0.1°C
Emissivity		0.10~1.00
Optical Resolution		12:1
Color Display		•
APO	Auto Power Off	•
Spectral Response	8-14 µm	•
Laser	<1mW / 630-670nm	•
°C/°F Selection		•
Response Time	0.5 second	•
Relative Humidity	10%~90%	•
Laser Target Pointer		•
High/Low	Alarm Setting	•
Reading Hold		•
Lock selection		•
MAX/MIN/AVG/DIF		•
Display Backlight		•
LBD	Low Battery Display	•
General		
Power Supply	1×9V 6F22 Battery	
Product Size	176mm×132mm×49mm/6.9"×5.2"×1.9"	
Product Weight	223g/0.5lb	
The Defalt Temperature	(°C) Centigrade/(°F) Fahrenheit	
Certificate	CE/ETL/RoHS	







Accesories included:
- Carry Bag
- Battery and User's manual



INFRARED AND K-TYPE THERMOMETER

IR TEMPERATURE:
-40°C~800°C
-40°F~1472°F

K-TYPE TEMPERATURE:
-40°C~1080°C
-40°F~1976°F

■ MS6531C

Specifications	Range	MS6531C Accuracy
IR Temperature	-40~0°C/-40~32°F	±4°C/ ±7.2°F
	0~400°C	±(1.5%+2°C)
	32~752°F	±(1.5%+3.6°F)
	400~800°C	±(2.0%+2°C)
	752~1472°F	±(2.0%+3.6°F)
K-Type Temperature	-40°C~1080°C	±(1.5%+3°C)
	-40°F~1976°F	±(1.5%+5.4°F)
Resolution	<199.9	0.1°C/0.1°F
	>199.9	1°C/1°F
Repeatability		±0.1°C
Emissivity		0.10~1.00
Optical Resolution		12:1
Features		
Data Logging	20 groups	●
Color Display		●
APO	Auto Power Off	●
Spectral Response	8-14 µm	●
Laser	<1mW / 630-670nm	●
°C/°F Selection		●
Response Time	0.5 second	●
Relative Humidity	10%~90%	●
Laser Target Pointer		●
High/Low	Alarm Setting	●
Reading Hold		●
Lock selection		●
MAX/MIN/AVG/DIF		●
Display Backlight		●
LBD	Low Battery Display	●
General		
Power Supply	1×9V 6F22 Battery	
Product Size	176mm×132mm×49mm/6.9"×5.2"×1.9"	
Product Weight	223g/0.5lb	
The Defalt Temperature	(°C) Centigrade/(°F) Fahrenheit	
Certificate	CE/ETL/RoHS	

Accesories included:
- K Type Thermpcouple
- Carry Bag
- Battery and User's manual



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INFRARED AND K-TYPE THERMOMETER

IR TEMPERATURE:
-20°C~350°C
-4°F~662°F

K-TYPE TEMPERATURE:
-50°C~300°C
-58°F~572°F

■ MS6541



Specifications	Range	MS6541 Accuracy
IR Temperature	-50~0°C/ -58°F~32°F	±4°C/ ±7.2°F
	0°C~400°C	±(1.5%+2°C)
	32°F~752°F	±(1.5%+3.6°F)
	400°C~760°C	±(2.0%+2°C)
	752°F~1400°F	±(2.0%+3.6°F)
K-Type Temperature	-50°C~300°C	±(1.5%+3°C)
	-58°F~572°F	±(1.5%+5.4°F)
Resolution	<1000	0.1°C/0.1°F
	>1000	1°C/1°F
Repeatability		±0.1°C
Emissivity		0.10~1.0
Optical Resolution		30:1
Features		
Data Logging	100 groups	●
Spectral Response	8~14µm	●
Laser	<1mW / 630-670nm	●
°C/°F Selection		●
Response Time	<500ms	●
Relative Humidity	10%~90%	●
Laser Target Pointer		●
High/Low	Alarm Setting	●
APO	Auto Power Off	●
MAX/MIN/AVG/DIF		●
Reading Hold		●
Display Backlight		●
LBD	Low Battery Display	●
General		
Power Supply	1×9V 6F22 Battery	
Product Size	MS6530T 194mm×162mm×56mm/7.6"×6.4"×2.2" MS6541 192mm×95mm×83mm/7.5"×3.7"×3.3"	
Product Weight	MS6530T 280g/0.6lb MS6541 275g/0.6lb	
The Defalt Temperature	(°C) Centigrade/(°F) Fahrenheit	
Certificate	CE/ETL/RoHS	

Accesories included:
- K Type Thermpcouple
- Carry Bag
- Battery and User's manual



THERMOCOUPLE DIGITAL THERMOMETER

MAIN FEATURES:
-up to 750ºC/1382ºF
-K-type thermocouple
-0.1ºC/0.1ºF resolution
-one channel

■ MS6500

Specifications	Range	MS6500 Accuracy
Celsius CENTER IT VERTICALLY	-50~-40°C	±6°C
	-39.9~-20°C	±5°C
	-19.9~0°C	±3°C
	0~500°C	±(0.75%+2°C)
	500~750°C	±(1%+3°C)
Fahrenheit CENTER IT VERTICALLY	-58~4°F	±7°F
	-3~32°F	±4°F
	33~932°F	±(0.75%+4°F)
	932~1382°F	±(1%+5°F)
Resolution	°C/°F	0.1
Features		
Sample Rate		500mS
Display	counts	2000
Data Hold		•
Input	K-Type Termocouples	•
LBD	Low Battery Display	•
General		
Power Supply	1×9V 6F22 Battery	
Product Size	125.5mm×72mm×27mm/5.6"×2.8"×1.0"	
Product Weight	145g/0.30lb	
Certificate	CE/ETL/RoHS	

Accesories included:
- K type thermocouple
- Carry Bag
- Battery and User's manual



THERMOCOUPLE DIGITAL THERMOMETER

MAIN FEATURES:
- One or two channels
- Up to 1,372ºC/2,501ºF
- 0.1ºC/0.1ºF resolution
- K, J, T, E thermocouple type

■ MS6511
■ MS6512

Specifications		Range	MS6511 Accuracy	MS6512 Accuracy
Thermocouple Type	K	-200~1372°C/-328~2501°F	Above -10°C: ±(0.5% + 0.5°C) Between -10°C~ -200°C: ±(0.5% + 1°C) Below -200°C: ±(0.5% + 1.5°C) T-type < -200°C for reference only	
	J	-210~1200°C/-346~2192°F		
	T	-250~400°C/-418~752°F		
	E	-150~1000°C/-238~1832°F		
Resolution		<1000	0.1°C/ 0.1°F/ 0.1k	
		>1000	1°C/ 1°F/ 1k	
Features				
Injection Method			Single	Dual
Channel			TC	T1/ T2/ T1-T2
APO	Auto Power Off		•	
Data Hold			•	
MAX/MIN/AVG			•	
LBD	Low Battery Display		•	
General				
Power Supply	1×9V 6F22 Battery			
Product Size	190mm×89mm×42mm/7.5"×3.5"×1.7"			
Product Weight	350g/0.8lb			
Certifictae	CE/ETL/RoHS			





Accesories included:
- K type thermocouple
- Battery and User's manual







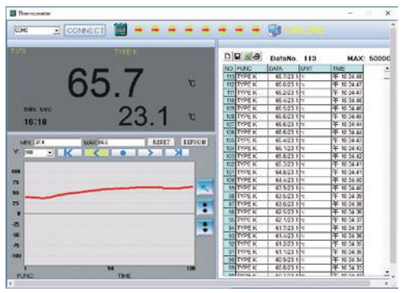
THERMOCOUPLE THERMOMETER WITH DATA LOGGING

MAIN FEATURES:
- One or two channels
- Up to 1,372ºC/2,501ºF
- K, J, T, E, R, S, N thermocouple type
- Data logging

■ **MS6513**
■ **MS6514**

Specifications	Range		Accuracy
			MS6513 / MS6514
Thermocouple Type	K	-200~1372°C/-328~2501°F	K.J.T.E.N type
	J	-210~1200°C/-346~2192°F	Above -10°C: ±(0.2% + 0.5°C)
	T	-250~400°C/-418~752°F	Between -10°C~ -200°C: ±(0.2% + 1°C)
	E	-150~1000°C/-238~1832°F	Below -200°C: ±(0.2% + 1.5°C)
	R	0~1767°C/-32~3212°F	T-type < -200°C for reference only
	S	0~1767°C/-32~3212°F	
	N	-200~1300°C/-328~2372°F	R.S type : ±(0.2% + 1°C)
Resolution	<1000		0.1°C/ 0.1°F/ 0.1k
	>1000		1°C/ 1°F/ 1k
Features			
Injection Method			Single / Dual
Channel			T1/ T2 /T1-T2
APO	Auto Power Off		•
Data Logging	groups		1000
Data Hold			•
MAX/MIN/AVG			•
MEM	Save current data		•
USB Interface			•
LBD	Low Battery Display		•
General			
Power Supply	1×9V 6F22 Battery		
Product Size	190mm×89mm×42mm/7.5"×3.5"×1.7"		
Product Weight	350g/0.8lb		
Certificate	CE/ETL/RoHS		

Accesories included:
- K type thermocouple
- USB interface cable
- Software CD
- Battery and User's manual



THERMO-HYGROMETER

AMBIENT TEMP: -20°C~60°C / -4°F~-140°F
WET BULB TEMP: -20°C~60°C / -4°F~-140°F
HUMIDITY: 0%~100&RH

■ **MS6508**

Specifications	Range	Accuracy
		MS6508
Ambient Temperature	-20°C~0°C/-4°F~32°F	±1°C/±1.8°F
	0°C~45°C/32°F~113°F	±0.5°C/±0.9°F
	45°C~60°C/113°F~140°F	±1°C/±1.8°F
Wet Bulb Temperture	-20°C~0°C/-4°F~32°F	±1.5°C/±2.7°F
	0°C~45°C/32°F~113°F	±1°C/±1.8°F
	45°C~60°C/113°F~140°F	±1.5°C/±2.7°F
Dew Point Temperture	-50°C~0°C/-58°F~32°F	±1.5°C/±2.7°F
	0°C~45°C/32°F~113°F	±1°C/±1.8°F
	45°C~60°C/113°F~140°F	±1.5°C/±2.7°F
Relative Humidity	0%~10%	±4.0%RH
	10%~90%	±3.0%RH
	90%~100%	±4.0%RH
Features		
Updated Rate		400ms
Data Logging	Data Logging and Recall	100
°C/°F Selection		•
MAX/MIN		•
Data Hold		•
Display Backlight		•
LBD	Low Battery Display	•
General		
Power Supply	4×1.5V AAA Batteries	
Product Size	184mm×60mm×29mm/7.2"×2.4"×1.1"	
Product Weight	154g/0.34lb	
Certificate	CE/ETL/RoHS	



Accesories included:
- Carry Bag
- Battery and User's Manual



MASTECH®
BUILD TO PRECISION



THERMO-HYGROMETER WITH DATA LOGGING

MS6505

MAIN FEATURES:
- Up to 60ºC/140ºF
- 16,300 groups
- 0.1ºC/0.1ºF resolution
- RS232

Specifications	Range	MS6505 Accuracy
Temperature	-20°C~60°C	±0.7°C
	-4°F~140°F	±1.4°F
Relative Humidity	0~100%	±2.5% RH
Resolution	Temperature	0.1°C/°F
	Humidity	0.1%RH
Response Time	Humidity	75 Sec
	Temperature	40 Sec
Features		
Display	4 Digital Liquid Crystal Display	2000
APO	Auto Power Off	•
MAX/MIN		•
Clock		•
Data logging	16300 groups	•
Data Hold		•
Interface	RS-232	•
Display Backlight		•
General		
Power Supply	1×9V 6F22 Battery	
Product Size	183mm×74mm×42mm/7.3"×2.9"×1.6"	
Product Weight	330g/0.7lb	
Certificate	CE/ETL/RoHS	

Accesories included:
- RS232 Date Line
- Software CD
- Carry Bag
- AC Adapter
- Battery and User's manual



Environmental Meters

Light meters | Anemometers | Sound level meters
Laser distance meters | Tachometers | Moisture meters
Gas detectors | Multifunction environmental meters





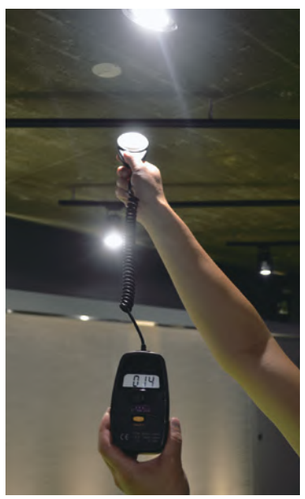
LIGHT METER (LUX)

MAIN FEATURES:
- Up to 50,000 lux
- 1 lux resolution

■ MS6610

Specifications	Range	Resolution	MS6100 Accuracy
Measurement Range	0~1999 Lux	1 Lux	±(5%+2)
	2000~19990 Lux	10 Lux	±(5%+2)
	20000~50000 Lux	100 Lux	±(5%+2)
Features			
Display Counts			2000
Data Hold			•
Photo Detector	One Silicon Photo Diode with Filter		•
Lead Length	150cm (Approx)		•
LBI	Low Battery Indicator		•
General			
Power Supply	1×9V 6F22 Battery		
Product Size	126mm×72mm×27mm/5.0"×2.8"×1.0"		
Photo Detector Size	83mm×52mm×21mm/3.2"×2.0"×0.8"		
Product Weight	180g/0.4lb		
Cerfificate	CE/ETL/RoHS		

Accesories included:
- Battery and User's manual



LIGHT METER (LUX)

MAIN FEATURES:
- Up to 200,000 lux
- 0.01 lux resolution
- Lux, FC, CD indications
- LED light versions

■ MS6612
■ MS6612B
■ MS6612D

Specifications	Range	Resolution	Accuracy MS6612	MS6612B	MS6612D
Measurement Range	0~200000 Lux	0.01 Lux	±(3%+2)		
	0~20000 FC	0.01 FC	±(3%+2)		
	0~999900 CD	0.01 CD		±(3%+2)	±(3%+2)
Light Source Default Values	L0-Standard Ligthing			•	•
	L1-LED Daytime Light			•	•
	L2-LED Red Light			•	•
	L3-LED Amber (yellow) Light			•	•
	L4-LED Green Light			•	•
	L5-LED Blue Light			•	•
	L6-LED Purple Light			•	•
	L7-L9-Default Standard Lighting			•	•
Features					
Display Counts			2000		
Auto Ranging	Auto & Manual		•		
APO	Auto Power Off		•		
MAX / MIN			•		
REL	Relative Measurement		•		
PEAK	Peak Measurement		•		
ZERO	Zero Calibration		•		
FC / Lux	FC / Lux / Unit Selection		•		
Data Hold			•		
Analog Bar	Analog Bar Indication		•		
LBD	Low Battery Display		•		
CD	CD Unit Selection			•	•
Wireless	APP connection				•
General					
Power Supply	1×9V 6F22 Battery				
Product Size	170mm×89mm×43mm/6.7"×3.5"×1.7"				
Product Weight	420g/0.93lb				
Certificate	CE/ETL/RoHS				

*For further information about SMARTPHONE Connection please check page 4.



Accesories included:
- Carry Bag
- Battery and User's manual





Accesories included:

- USB interface cable(MS6252B)
- Software CD(MS6252B)
- Carry Bag
- Battery and User's manual



*For further information about SMARTPHONE Connection please check page 4.

ANEMOMETERS

MAIN FEATURES:
- Wind speed
- Temperature
- Humidity
- Air volumen calculation

- **MS6252A**
- **MS6252B**
- **MS6252D**

Specifications	Range	Resolution	Accuracy	MS6252A	MS6252B	MS6252D
m/s(meter per second)	0.80~30.00 m/s	0.01 m/s	±(2.0%+50)			
	30.00~40.00 m/s	0.01 m/s	Reference			
km/h(kilometer per hour)	2.88~108.0 km/h	0.01 km/h	±(2.0%+50)			
	108.0~144.0km/h	0.1 km/h	Reference			
ft/s(feet per second)	2.62~98.50ft/s	0.01 ft/s	±(2.0%+50)			
	98.5~131.2ft/s	0.01 ft/s	Reference			
Knots(nautical miles per hour)	1.6~58.30knots	0.01 knots	±(2.0%+50)			
	58.30~77.70knots	0.01 knots	Reference			
mile/h(mile per hour)	1.8~67.20mil/h	0.01 mil/h	±(2.0%+5)			
	67.20~90.00mil/h	0.01 mil/h	Reference			
ft/m(feet per minute)	157.5~5900ft/m	1 ft/m	±(2.0%+5)			
	5900~7874ft/m	1 ft/m	Reference			
Temperature	-10°C~60°C	0.1°C			±1.5°C	±1.5°C
	14~140°F	0.1°F			±2.7°F	±2.7°F
Relative Humidity	(20~80%)RH	0.1%RH			±3.0%	±3.0%
	(<20 or >80%)RH	0.1%RH			±5.0%	±5.0%
Features						
Air Volume Unit	Range	Area				
	CFM: 0~999.9	0~9.999 ft²	•			
	CMM: 0~999.9	0~9.999 m²	•			
	CMS: 0~99.99	0~9.999 m²	•			
Display Counts			9999			
APO	Auto Power Off		•			
Flow Area Setting			•			
MAX / MIN			•			
Data Hold			•			
Display Backlight			•			
LBD	Low Battery Display		•			
°C/°F Selection					•	•
Ambient					•	•
Dew Point					•	•
Wet Bulb					•	•
Temperature					•	•
USB Interface	(Windows OS)				•	
Wireless	APP connection					•
General						
Power Supply	1×9V 6F22 Battery					
Product Size	165mm×85mm×38mm/6.5"×3.3"×1.5"					
Product Weight	168g/0.37lb					
Certificate	CE/ETL/RoHS					

SOUND LEVEL METER

MAIN FEATURES:
- Fast/slow methods
- A/C weighting

- **MS6708**

Specifications	Range	Resolution	Accuracy (MS6708)
Sound Pressure	30dB~80dB	0.1dB	±1.5dB
	40dB~90dB	0.1dB	±1.5dB
	50dB~100dB	0.1dB	±1.5dB
	60dB~110dB	0.1dB	±1.5dB
	70dB~120dB	0.1dB	±1.5dB
	80dB~130dB	0.1dB	±1.5dB
Features			
Display Counts			2000
Auto Ranging	Auto & Manual		•
APO	Auto Power Off		•
Dynamic	50dB		•
Frequency	30Hz~8kHz		•
Sample Rate	2 times/second		•
Fast/Slow	125ms/1 sec		•
A/C Weighting			•
B.L.	Display Backlight		•
LBD	Low Battery Display		•
Analog Bar	Analog Bar Indication		•
UNDER/OVER	Over Range Indication		•
MAX			•
Data Hold			•
General			
Power Supply	4×1.5V AAA Batteries		
Product Size	193mm×60mm×29mm/7.6"×2.4"×1.1"		
Product Weight	222g/0.48lb		
Certificate	CE/ETL/RoHS		



Accesories included:

- Windscreen
- Carry Bag
- Battery and User's manual





SOUND LEVEL METER WITH DATA LOGGING

MAIN FEATURES:
- A/C weighting
- Data logging

■ **MS6701**

Specifications	Range	Resolution	MS6701 Accuracy
Sound Pressure	30dB~80dB	0.1dB	±1.5dB
	40dB~90dB	0.1dB	±1.5dB
	50dB~100dB	0.1dB	±1.5dB
	60dB~110dB	0.1dB	±1.5dB
	70dB~120dB	0.1dB	±1.5dB
	80dB~130dB	0.1dB	±1.5dB
Features			
Display Counts			2000
Auto Ranging	Auto & Manual		•
APO	Auto Power Off		•
Dynamic	50dB		•
Frequency	30Hz~8kHz		•
Sample Rate	2 times / second		•
Fast / Slow	125ms / 1 sec		•
A / C Weighting			•
B.L.	Display Backlight		•
LBD	Low Battery Display		•
Analog Bar	Analog Bar Indication		•
UNDER / OVER	Over Range Indication		•
MAX			•
Date and Time	Date and Time Display		•
AC Signal Output	0.707 Vrms at FS (Auto-range mode isn't included) Output impedance approx. 600Ω		•
DC Signal Output	10mV/dB Output impedance approx.100Ω		•
AC Adapter	Supply Voltage : 9VDC Supply Current >100m ADC External Diameter 3.5mm		•
RS-232 Pclink			•
USB Interface			•
Data Logging	records		16000
General			
Power Supply	6×1.5V AAA Batteries		
Product Size	265mm×80mm×69mm/10.4"×3.15"×2.7"		
Product Weight	317g/0.7lb		
Certificate	CE/ETL/RoHS		

Accesories included:
- Earphone plug
- Wapping case
- Windscreen
- Software CD
- RS232 interface cable
- Battery and User's manual



LASER DISTANCE METERS

MAIN FEATURES:
- Up to 100m
- Area and volumen calculation
- Data logging
- Class II laser

■ **MS6406** ■ **MS64100**
■ **MS6408** ■ **MS6404**

Specifications	MS64100 Range	MS6404	MS6406	MS6408
Distance	100M	40M	60M	80M
Accuracy	±1.5mm	±2.0mm		
Unit	m/inch/ft	m/inch/ft		
Features				
Measurement	Full mode - Pythagorean proposition measurement function			
Continuous	Continuous measurement			
Area/Volume	Area & volume calculation			
Add and subtract	Add and subtract measurement function			
Foot level	Auxiliary foot level measurement			
MIN/MAX	MIN and MAX measurement			
Backlight	Display backlight			
Laser	Assisted laser measurement			
Laser type	Class II, 635nm, <1mW			
Automatically cut off laser	20s			
Automatic shutdown	150s			
Data Logging	99 groups	30 groups		
General				
Power Supply	3×1.5V AAA Batteries	2×1.5V AAA Batteries		
Product Weight	175g/0.4lb	120g/0.26lb		
Product Size	120mm×60mm×28mm	112mm×50mm×25mm		
Certification	CE/ETL/FDA/RoHS			





MS6404



Accesories included:
- Portable Bag
- Battery and User's manual

MS6208A



MS6208B



CE ETL Intertek RoHS

CONTACT AND NON-CONTACT TYPE TACHOMETERS

RANGE (CONTACT): 50-19,999 RPM

RANGE (NON-CONTACT): 50-99,999 RPM

- **MS6208A**
- **MS6208B**

Specifications	Range	Resolution	Accuracy MS6208A	Accuracy MS6208B
Measurement	50~99.99 RPM	0.01 RPM	±(0.03%+2)	±(0.03%+2)
	100~9999.9 RPM	0.1 RPM	±(0.03%+2)	±(0.03%+2)
	10000~19999 RPM	1 RPM	±(0.03%+2)	
	10000~99999 RPM	1 RPM		±(0.03%+2)
Features				
Measuring Mode			Contact	Non-Contact
Measuring Distance	50mm~250mm			•
Idler wheel selection	6'', 12'', 0.1m		•	
Unit Selection	m/min, m/sec, ft/min, ft/sec, in/min		•	
APO	Auto Power Off		•	
MAX/MIN			•	
Data Logging	100 groups		•	
Data Hold			•	
Display Backlight			•	
LBD	Low Battery Display		•	
General				
Power Supply	4×1.5AAA Batteries			
Model	MS6208A	MS6208B		
Product Size	170mm×60mm×27mm/6.7"×2.4"×1.1"	155mm×60mm×27mm/6.1"×2.4"×1.1"		
Product Weight	130g/0.28lb	120g/0.26lb		
Certificate	CE/ETL/RoHS			

Accesories included:

- Measurement idler wheels, touch tips and lengthening bar (MS6208A)
- Reflective sheeting (MS6208B)
- Carry bag
- Battery and User's manual

MOISTURE TESTER

MAIN FEATURES:

-Moisture up to 60%
-Relative humidity
-Ambient temperature
-Verification test points

- **MS6900A**

Specifications	Range	Accuracy MS6900A
Material Moisture	0.0~60.0%	±2.0%
Ambient TEMP	-10℃~50℃/14℉~122℉	±2℃/±3.6℉
Relative Humidity	10~90%	±5.0%RH
Features		
Auxiliary	Verification Test Points	•
Depth	0~50mm	•
MAX/MIN		•
Sampling Rate	240mS	•
Unit Selection	%, WB, TD, °C,°F, %RH	•
Display Backlight		•
Data Hold		•
LBD	Low Battery Display	•
Materials Moisture Range		
1: (8.5~60%)	Beech, Spruce, Larch, Birch, Cherry, Walnut	
2: (6.8~53.4%)	Oak, Cedar, Maple, Ash Tree, Pink Shower Tree, Tamarisk	
3: (0.9~24.5%)	Smoothing Cement, Concrete	
4: (0.0~12.2%)	Anhydrite Screed	
5: (0.7~9.2%)	Cement Mortar	
6: (0.5~11.1%)	Lime Mortar, Plaster	
7: (0.0~17.8%)	Brick	
General		
Power Supply	2×1.5V AAA Batteries	
Product Size	130mm×56mm×29mm/5.1"×2.2"×1.1"	
Product Weight	120g/0.26lb	
Certificate	CE/ETL/RoHS	

● Verification Test Point







CE ETL Intertek RoHS

Accesories included:

- Carry Bag
- Battery and User's manual





COMBUSTIBLE GAS DETECTOR

RESOLUTION: 50 ppm

ALARM: 10%~40%

■ MS6310

MS6310

Specifications	
Resolution (methane)	50ppm
Alarm range	10%~40%
Warm Up Time	2 Minutes
Response time (40% LEL)	<2 Seconds
Features	
Easy to Identify and Pinpoint Gas Leaks	•
Portable and High Sensitivity	•
Resume Original Measurement State after 7~10 minutes in Clear Air	•
Gas Detected: Natural gas, Methane, Ethane, Propane, Butane, Acetone, Alcohol, Ammonia, Steam, Carbon Monoxide, Gasoline, Jet Fuel, Hydrogen Solvents, Lacquer thinner, Naphtha	•
General	
Power Supply	4×1.5V AA Batteries
Product Size	172mm×70mm×46mm/6.8"×2.8"×1.8"
Product Weight	354g/0.78lb
Certificate	CE/ETL/RoHS

Accesories included:

- Carry Bag
- Battery and User's manual



MULTIFUNCTION ENVIRONMENTAL METER

TEMPERATURE: -10~60℃ 14~140℉

HUMIDITY: 20~80%RH

SOUND LEVEL: 30~130dB(A)

AIR FLOW: 999,900 CMM/CFM

WIND SPEED: 0.5~20m/s

ILLUMINANCE: 0~50,000LUX

■ MS6300

MS6300

Specifications	Range	Resolution	Accuracy
Temperature	-10°C~60°C	0.1°C	±1.5°C
	14~140°F	0.1°F	±2.7°F
Relative Humidity	20%~80%RH	0.1%RH	±3.0%RH
	<20% or >80%RH	0.1%RH	±5.0%RH
Sound Level	30dB~130dB (A)	0.1dB	±1.5dB
	35~130dB (C)	0.1dB	±1.5dB
Illuminance	0~2000LUX	1LUX	±(5.0%+10)
	x10 (20000)	10LUX	±(5.0%+10)
	x100 (50000)	100LUX	±(5.0%+10)
Wind Speed	0.5~20m/s	0.1m/s	±(3.0%+10)
	1.8~72km/h	0.1km/h	±(3.0%+10)
	96~3942ft/min	1ft/min	±(3.0%+10)
	0.9~38.9knots	0.1knots	±(3.0%+10)
Air Flow (CMM)	0~999900CMM	0.1CMM (<1000CMM)	±(3.0%+10)
		1CMM (>1000CMM)	±(3.0%+10)
Air Flow (CFM)	0~999900CFM	0.1CFM (<1000CFM)	±(3.0%+10)
		1CFM (>1000CFM)	±(3.0%+10)
Features			
Auto Ranging	Auto & Manual		•
APO	Auto Power Off		•
Area range	0~999.9 m², 0~999.9ft²		•
Value	AVG/MAX/MIN/DIF (MAX-MIN)		•
A/C Weighting	Weighting Indication		•
Data Hold			•
B.L.	Display Backlight		•
LBD	Low Battery Display		•
General			
Power Supply	1×9V 6F22 Battery		
Product Size	280mm×89mm×50mm/11.0"×3.5"×2.0"		
Product Weight	433g/0.95lb		
Certificate	CE/ETL/RoHS		



Accesories included:

- Windbreak
- Holder
- Wrapping case
- Battery and User's manual



Process Calibrators



THERMOCOUPLE CALIBRATOR

THERMOCOUPLE TYPES:
- J, K, T, E, R, S, B, N

MS7220

MS7220

Thermocouple Type		
Type	Range	Resolution
J	-200°C~1200°C/-328°F~2192°F	0.1°C/°F
K	-200°C~1370°C/-328°F~2498°F	0.1°C/°F
T	-200°C~400°C/-328°F~752°F	0.1°C/°F
E	-200°C~950°C/-328°F~1742°F	0.1°C/°F
R	-20°C~1750°C/-4°F~3182°F	1°C/°F
S	-20°C~1750°C/-4°F~3182°F	1°C/°F
B	600°C~1800°C/1112°F~3272°F	1°C/°F
N	-250°C~1300°C/-418°F~2372°F	0.1°C/°F

Millivolt Measure and Source (MAX input voltage:30V)			
Mode	Range	Resolution	Accuracy
mV	-10mV~75mV	0.01mV	±(0.02%+2)

Temperature Measure and Simulate (MAX input voltage:30V)			
Type	Resolution	Error	Reference junction Error
J,K,T,E,N	0.1°C/ °F	±(0.3°C+10uV)	±0.2°C
R,S,B	1°C/ °F	±(0.3°C+10uV)	±0.2°C

Features	
Thermocouple Standard	NIST 175
Thermocouple Scales	ITS-90
Storage Temperature	-40°C~60°C
Operating Temperature	-10°C~55°C
Operating Altitude	3000 meters maximum
Temperature coefficient	±0.005% of range per °C for the temperature range -10~18°C and 28~55°C
Humidity	95% (10 °C to 30 °C) 75% (30 °C to 40 °C) 45% (40 °C to 50 °C)
Vibration	Random 2G, 5Hz~500Hz
Shock	1 Meter drop test
°C/°F Selection	Optional Temperature Unit Selection
LBD	Low Batter Display

General	
Power Supply	1×9V 6LR61 Battery
Product Size	195mm×90mm×43mm/7.67"×3.54"×1.7"
Product Weight	367g/0.8lb
Certificate	CE/ETL/RoHS





CE ETL Intertek RoHS

Accesories included:
- Mini-plug TC Wire
- Wrapping Case
- Battery and User's Manual







VOLTAGE AND CURRENT CALIBRATOR

DC VOLTAGE: 0~100mV, 0-10V

DC CURRENT: 0~24mA

■ MS7221

MS7221

Measurement and Output Voltage Parameter			
Function	Range	Resolution	Accuracy
DC Voltage Input / Output	0~100mV	0.01mV	±(0.02%+2)
	0.1~10V	0.001V	±(0.02%+2)
DC current Input / Output	0~24mA	0.001mA	±(0.015%+4)
Loop Power	24V	N/A	±10%
Features			
Storage Temperature		-40°C~60°C	
Operating Temperature		-10°C~55°C	
Operating Altitude		3000 meters maximum	
Temperature coefficient		±0.005% of range per °C for the temperature range -10~18°C and 28~55°C	
Humidity		95% (10 ºC to 30 ºC) 75% (30 ºC to 40 ºC)	
Vibration		Random 2G , 5Hz~500Hz	
Shock		1 Meter drop test	
LBD		Low Battery Display	
APO		Auto power off	
General			
Power Supply	1×9V 6LR61 Battery		
Product Size	190mm×89mm×42mm/7.5"×3.5"×1.7"		
Product Weight	350g/0.77lb		
Certificate	CE/ETL/RoHS		

Accesories included:

- Wrapping Case
- Battery and User's Manual



MULTIFUNCTION PROCESS CALIBRATOR

MAIN FEATURES:
- TRMS digital multimeter functions
- Calibration functions: voltage, current, frequency

■ MS7212

MS7212

Specifications	Range	Resolution	Accuracy
DC Voltage	400mV	0.01mV	±(0.025%+10)
	4V/40V/300V	0.1mV/1mV/10mV	±(0.025%+5)
AC Voltage	400mV	0.01mV	±(0.7%+20)
	4V/40V/300V	0.1mV/1mV/10mV	±(0.8%+10)
DC Current	400mA	0.01mA	±(0.1%+10)
AC Current	400mA	0.01mA	±(0.7%+10)
Resistance	400Ω/4KΩ/40KΩ/400KΩ	0.01Ω/0.1Ω/1Ω/10Ω	±(0.1%+10)
Frequency	4Hz~999.9Hz	0.01Hz	±0.05Hz
	1000Hz~5kHz	0.01Hz /0.1Hz	±0.5Hz
	5kHz~30kHz	0.1Hz/1Hz	±2.0Hz
Temperature	-50℃~1300℃	0.1℃	±(0.3%+1℃)
Source Output			
DC Voltage Output	100mV	0.001mV	±(0.025%+0.03%)
	5.000V/15.000V	0.001V	±(0.025%+0.02%)
DC Current Output	25mA	0.001mA	±(0.02%+0.02%)
Frequency Output	20Hz~5kHz	0.01Hz /0.1Hz	±0.02%
Features			
Display counts			40000
Auto Ranging			●
Manual Ranging			●
REL	Relative Measurement		●
Continuity Buzzer	<50Ω		●
MAX/MIN/AVG			●
Display Backlight			●
Data Hold			●
RS232 Interface			●
USB Interface	Windows OS		●
LBD	Low Battery Display		●
General			
Power Supply	8×1.5V AA Batteries		
Product Size	224mm×172mm×59mm/8.8"×6.77"×2.28"		
Product Weight	1100g/2.2lb		
Certificate	RoHS		
Safety Rating	CAT Ⅱ 600V		



CAT II 600V

Accesories included:



* External power supply (optional)

Phase Rotation Testers



MOTOR & PHASE ROTATION TESTER

MAIN FEATURES:
- LED indication
- Missing phase indication
- Built-in or attachable test leads

- **MS5900**
- **MS5901**

Specifications	Range	MS5900	MS5901
Nominal Voltage Rotary Direction	1~400V AC	●	●
Nominal Voltage Phase Indication	120~400V AC	●	●
Frequency	2~400Hz	●	●
Test Currents (In per phase)	Less than 3.5 mA	●	●
Built-in test leads			●
Features			
Operating TEMP	0~40℃	●	●
Operating Altitude	2000m	●	●
Pollution Degree	2	●	●
Relative Humidity	15~80%RH	●	●
General			
Power Supply	1×9V 6F22 Battery		
Product Size	130mm×72mm×32mm/5.1"×2.8"×1.3"		
Product Weight	MS5900: 193g/0.43lb MS5901: 252g/0.6lb		
Certificate	RoHS(MS5900) ETL/CE(MS5901)		
Safety Rating	CATIII 600V		

MS5900



MS5901







CE ETL Intertek CAT III 600V RoHS

Accesories included:
- Test probes
- Test alligator clips
- Carry bag
- Battery and User's manual

LCR Meters



LCR METER WITH SMART TECHNOLOGY

RESISTANCE: 300Ω~30MΩ

CAPACITANCE: 3nF~30mF

MS8910

MS8910

Specifications	Range	Resolution	Accuracy
Resistance	300Ω/3kΩ/30kΩ/300kΩ/3MΩ	0.1Ω/1Ω/10Ω/100Ω/1kΩ	±(1.0%+2)
	30MΩ	10kΩ	±(1.2%+3)
Capacitance	3nF/30nF/300nF/3μF/30μF	1pF/10pF/100pF/1nF/10nF	±(2.0%+3)
	300μF/3mF/30mF	0.1μF/1μF/10μF	±(3.0%+3)
Features			
Display	counts		3000
Auto Ranging	Auto		●
APO	Auto Power Off		●
Data Hold			●
LBD	Low Battery Display		●
Auto Scanning			●
Diode Check	Open Voltage		2.8V
	Testing Current		2mA
Continuity Buzzer			30Ω
General			
Power Supply	1×3V CR2032 Battery		
Product Size	175mm×32mm×20mm/6.89"×1.26"×0.79"		
Product Weight	48g/0.10lb		
Certificate	CE/ETL/RoHS		



CE ETL Intertek RoHS

Accesories included:

- Spare Test Pin
- Wrapping Case
- Battery and User's Manual



SMART

LCR METER WITH SMART TECHNOLOGY

RESISTANCE: 60Ω~20MΩ
INDUCTANCE: 600μH~200H
CAPACITANCE: 600pF~6mF

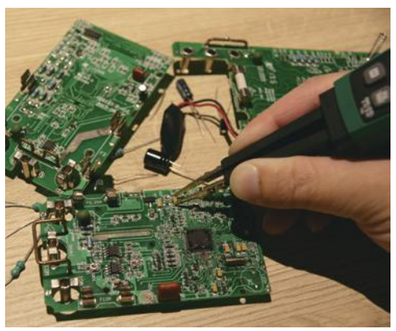
■ MS8911



MS8911

Specifications	Testing Voltage	Range	Resolution	Accuracy
Resistance	0.5V RMS	60Ω	0.01Ω	±(2.0%+10)
		600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(1.0%+5)
		6MΩ/20MΩ	0.001MΩ/0.01MΩ	±(2.0%+5)
	0.1V RMS	60Ω	0.01Ω	±(2.0%+10)
		600Ω/6kΩ/60kΩ/600kΩ	0.1Ω/0.001kΩ/0.01kΩ/0.1kΩ	±(1.5%+5)
		6MΩ/20MΩ	0.001MΩ/0.01MΩ	±(3.0%+5)
Capacitance	0.5V RMS	600pF	0.1pF	±(2.0%+8)
		6nF/60nF/600nF	0.001nF/0.01nF/0.1nF	±(1.0%+5)
		6μF/60μF	0.001μF/0.01μF	±(2.0%+5)
		600μF	0.1μF	±(2.0%+10)
		6mF	0.001mF	±(2.0%+5)
	0.1V RMS	600pF	0.1pF	±(2.0%+5)
		6nF/60nF/600nF/6μF	0.001nF/0.01nF/0.1nF/0.001μF	±(1.5%+5)
		60μF/600μF/6mF	0.01μF/0.1μF/0.001mF	±(3.0%+5)
Inductance	0.5V RMS	600μH/6000μH	0.1μH/1μH	±(2.0%+5)
		60mH/600mH/6H/60H	0.01mH/0.1mH/0.001H/0.01H	±(1.0%+5)
		200H	0.1H	±(2.0%+5)
	0.1V RMS	600μH/6000μH	0.1μH/1μH	±(3.0%+5)
		60mH/600mH/6H	0.01mH/0.1mH/0.001H	±(1.5%+5)
		60H	0.01H	±(1.0%+5)
		200H	0.1H	±(2.0%+5)
Features				
Display	counts			6000
Auto Ranging	Auto & Manual			●
APO	Auto Power Off			●
Data Hold				●
LBD	Low Battery Display			●
Auto Scanning				●
General				
Power Supply	1×3V CR2450 Battery			
Product Size	186mm×35mm×23.6mm/7.3''×1.38''×0.93''			
Product Weight	90g/0.2lb			
Certification	CE /ETL/RoHS			

Accesories included:
- Battery and User's Manual



LCR METERS WITH MULTIMETER FORMAT

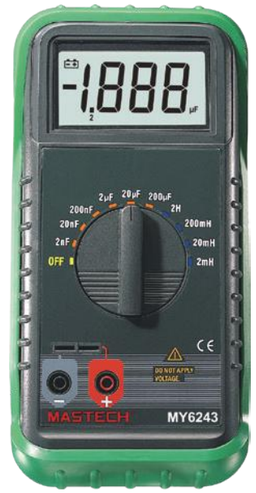
INDUCTANCE: 2mH~2H
CAPACITANCE: 2nF~200μF

■ MY6243
■ MS6013

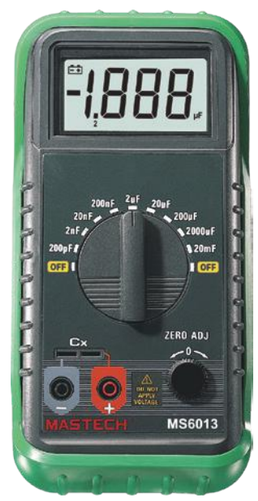
MS6013 MY6243

Specifications	Range	Resolution	Accuracy	
Capacitance	200pF	0.1pF	±(0.5%+1)	
	2nF/20nF/200nF	1pF/10pF/100pF	±(0.5%+1)	±(1.0%+1)
	2μF/20μF/200μF	1nF/0.01μF/0.1μF	±(0.5%+1)	±(2.0%+1)
	2000μF	1μF	±(1.0%+1)	
	20mF	10μF	±(2.0%+2)	
Inductance	2mH/20mH/200mH	1μH/10μH/100μH		±(2.0%+1)
	2H	1mH		±(5.0%+1)
Features				
LCD Display	counts		2000	2000
Zero Adjustment	approx. ± 20pF		●	
Input Jacks			●	●
Accuracy	High Accuracy in Measuring		●	●
LBD	Low Battery Display		●	●
General				
Power Supply	1×9V 6F22 Battery			
Product Size	189mm×91mm×31.5mm/7.4"×3.6"×1.2"			
Product Weight	240g/0.52lb			
Certification	CE/ETL/RoHS			

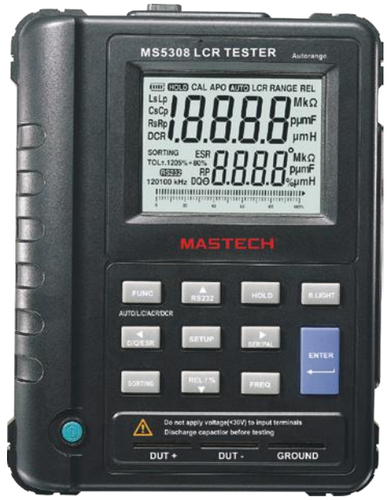
MY6243



MS6013



Accesories included:
- Test Leads
- Holster
- Battery and User's Manual



AUTORANGING LCR METER WITH USB

RESISTANCE MEASURMENT:	CAPACITANCE MEASURMENT:	INDUCTANCE MEASURMENT:
200MΩ	20mF	20kH

MS5308

MS5308

Features		
Elevation	<2000m	●
Relative Humidity	<80%RH	●
Operating TEMP	0℃~40℃	●
Dua Display	20000(Main) and 2000(Secondary) counts	●
Auto Ranging	Auto & Manual	●
APO	Auto Power off	●
LCR	Auto LCR smart check and measurment	●
DCR	support DCR mode	●
Measurement mode	Series / Parallel measurement mode	●
B.LIGHT	Display Backlight	●
LDB	Low Battery Display	●
Data hold		●
RS232 interface		●
General		
Power Supply	8×1.5 AA Batteries	
Product Size	224mm×172mm×58mm/8.8"×6.8"×2.3"	
Product Weight	841g/1.85lb	
Certificate	CE / ETL / RoHs	

Accesories included:

- Kelvin Test Clip
- SMD Test Probe
- IR Data Line
- Software CD
- External power supply (optional)
- User's manual

MASTECH®
BUILD TO PRECISION

Resistance Measurement				Capacitance Measurment				Inductance Measurment			
Frequency	Range	Resolution	Accuracy	Frequency	Range	Resolution	Accuracy	Frequency	Range	Resolution	Accuracy
100Hz/120Hz	200.00Ω	0.01Ω	1.0%+5d	100Hz/120Hz	20.000nF	1pF	1.0%+5d	100Hz/120Hz	20.000mH	1μH	1.0%+5d
100Hz/120Hz	2.0000kΩ	0.1Ω	0.3%+5d	100Hz/120Hz	200.00nF	0.01nF	0.5%+5d	100Hz/120Hz	200.00mH	0.01mH	0.5%+5d
100Hz/120Hz	20.000kΩ	1Ω	0.3%+5d	100Hz/120Hz	2000.0nF	0.1nF	0.5%+5d	100Hz/120Hz	2000.0mH	0.1mH	0.5%+5d
100Hz/120Hz	200.00kΩ	0.01kΩ	0.5%+5d	100Hz/120Hz	20.000μF	1nF	0.5%+5d	100Hz/120Hz	20.000H	1mH	0.5%+5d
100Hz/120Hz	2.0000MΩ	0.1kΩ	1.0%+5d	100Hz/120Hz	200.00μF	0.01μF	1.0%+5d	100Hz/120Hz	200.00H	0.01H	1.0%+5d
100Hz/120Hz	20.000MΩ	1kΩ	1.0%+5d	100Hz/120Hz	2000.0μF	0.1μF	2.0%+5d	100Hz/120Hz	2000.0H	0.1H	1.0%+5d
100Hz/120Hz	200.00MΩ	0.1MΩ	2.0%+5d	100Hz/120Hz	20.00mF	0.1mF	2.0%+5d	100Hz/120Hz	20.000KH	1H	2.0%+5d
1kHz	20.000Ω	0.001Ω	1.0%+5d	1kHz	2000.0pF	0.1pF	1.0%+5d	1kHz	2000.0μH	0.1μH	1.0%+5d
1kHz	200.00Ω	0.01Ω	0.3%+5d	1kHz	20.000nF	1pF	1.0%+5d	1kHz	20.000mH	1μH	0.5%+5d
1kHz	2.0000kΩ	0.1Ω	0.3%+5d	1kHz	200.00nF	0.01nF	0.5%+5d	1kHz	200.00mH	0.01mH	0.5%+5d
1kHz	20.000kΩ	1Ω	0.3%+5d	1kHz	2000.0nF	0.1nF	0.5%+5d	1kHz	2000.0mH	0.1mH	1.0%+5d
1kHz	200.00kΩ	0.01kΩ	0.5%+5d	1kHz	20.000μF	1nF	0.5%+5d	1kHz	20.000H	1mH	1.0%+5d
1kHz	2.0000MΩ	0.1kΩ	1.0%+5d	1kHz	200.00μF	0.01μF	1.0%+5d	1kHz	200.00H	0.01H	2.0%+5d
1kHz	20.000MΩ	1kΩ	2.0%+5d	1kHz	2000.0μF	0.1μF	1.0%+5d	1kHz	2000.0H	0.1H	5.0%+5d
1kHz	200.0MΩ	0.1MΩ	5.0%+5d	10kHz	200.00pF	0.01pF	1.0%+5d	10kHz	200.00μH	0.01μH	1.0%+5d
10kHz	20.000Ω	0.001Ω	1.0%+5d	10kHz	2000.0pF	0.1pF	1.0%+5d	10kHz	2000.0μH	0.1μH	0.5%+5d
10kHz	200.00Ω	0.01Ω	0.5%+5d	10kHz	20.000nF	1pF	1.0%+5d	10kHz	20.000mH	1μH	0.5%+5d
10kHz	2.0000kΩ	0.1Ω	0.3%+5d	10kHz	200.00nF	0.01nF	1.5%+5d	10kHz	200.00mH	0.01mH	1.5%+5d
10kHz	20.000kΩ	1Ω	0.5%+5d	10kHz	2000.0nF	0.1nF	2.0%+5d	10kHz	2000.0mH	0.1mH	2.0%+5d
10kHz	200.00kΩ	0.01kΩ	1.0%+5d	100kHz	200.00pF	0.01pF	2.0%+5d	10kHz	20.000H	0.001H	5.0%+5d
100kHz	20.000Ω	0.001Ω	1.0%+5d	100kHz	2000.0pF	0.1pF	1.0%+5d	100kHz	20.000μH	0.001μH	1.0%+5d
100kHz	200.00Ω	0.01Ω	1.0%+5d	100kHz	20.000nF	1pF	2.0%+5d	100kHz	200.00μH	0.01μH	2.0%+5d
100kHz	2.0000kΩ	0.1Ω	1.0%+5d	100kHz	200.00nF	0.01nF	5.0%+5d	100kHz	2000.0μH	0.1μH	2.0%+5d
100kHz	20.000kΩ	1Ω	2.0%+5d					100kHz	20.000mH	1μH	2.0%+5d
								100kHz	200.00mH	0.01mH	5.0%+5d

Circuit Analyzers



CIRCUIT ANALYZER

MAIN FEATURES:

- Single phase circuits
- Impedance
- RCD/GFCI testing
- Voltage drop

- **MS5908A**
- **MS5908C**

Specifications	Range		Resolution	Accuracy
	MS5908A	MS5908C		
Line Voltage	85.0~135.0V	85.0~265.0V	0.1V	±(1.0%+2)
Peak Line Voltage	120.0~190.0V	120.0~375.0V	0.1V	±(1.0%+2)
Voltage With Loading Equipments	10.0~135.0V	10.0~265.0V	0.1V	±(2.5%+2)
Line Frequency	45.0~65.0Hz		0.1Hz	±(1.0%+2)
Impedance-live and Neutral & Earth	0.00~3.00Ω		0.01Ω	±(2.5%+2)
	>3.00Ω		0.01Ω	No ensure
Neutral-Ground Voltage	0.0~10.0V		0.1V	±(2.5%+2)
RCD Trip Time	1ms~6.5S		1mS	±(1.0%+2)
RCD Trip Current	30mA~37mA		0.1mA	±(1.0%+2)
GFCI Trip Time	1ms~6.5S		1mS	±(1.0%+2)
GFCI Trip Current	6mA~9mA		0.1mA	±(1.0%+2)
Voltage Drop	0.1~99.9%		0.1%	±(2.5%+2)
Voltage Drop Load Current	12/15/20A	5/8/10A		
General				
Power Supply	6×1.5V AAA Batteries			
Product Size	194mm×78mm×37mm/7.64"×3.07"×1.46"			
Product Weight	254g/0.56lb			
Certificate	CE/ETL/RoHS			
Safety Rating	CAT III 300V			



CAT III 300V · CE · ETL Intertek · RoHS

Accesories included:

- Power Cord
- Carry Bag
- Battery and User's Manual



ACCESSORIES

TEST LEADS

T3022



Straight Type & Right Angle Type
Length: 1000mm

Plug: ø4.5mm
Wire: UL 1803/18AWG
MAX 10A

T3030U



Probe Length: 143mm/ø10mm
Length: 1000mm
Tip: ø2mm

Plug: ø4.5mm
Wire: UL 1803/18AWG
MAX 10A

T3033U



Probe Length: 119mm/ø9mm
Length: 800mm
Tip: ø2mm

Plug: ø4.5mm
Wire: UL 1803/20AWG
MAX 10A

T3060A



Probe Length: 132mm/ø10mm
Right Angle Type, M4 screw
Length: 1000mm
Tip: ø2mm

Plug: ø4.5mm
Wire: UL 1803/18AWG
MAX 10A

T3060B



Probe Length: 132mm/ø10mm
Right Angle Type, M4 screw
Length: 1500mm
Tip: ø2mm

Plug: ø4.5mm
Wire: UL 1803/18AWG
MAX 10A

T3103



Straight Type
Length: 1340mm

Plug: ø4.5mm
Wire: UL 1803/18AWG
MAX 10A

MASTECH®

ACCESSORIES

THERMOCOUPLES

P3401



Length:1000mm
Range:-40~260˚C(-40~500˚F)

P3408A



Length:1000mm
Range:-40~260˚C(-40~500˚F)
Plug lenth : 12mm

P3408B



Length:1000mm
Range:-40~260˚C(-40~500˚F)
Plug lenth : 16mm

P3409A



Length:1000mm
Range:-40~600˚C(-40~11112˚F)
Plug lenth : 12mm

P3409B



Length:1000mm
Range:-40~600˚C(-40~1112˚F)
Plug lenth : 16mm

P3410



Length:1000mm
Range:-40~600˚C(-40~1112˚F)

P3412



Length:1000mm
Range:-40~260˚C(-40~500˚F)

ACCESSORIES

CLIPS & THERMOCOUPLE ADAPTERS

C3107 Big Mouth Alligator Clip



Length: 87mm
ø4mm cross plug
Max 32A

C3109A Alligator Clip



Length: 61.5mm
with M4 screw

C3109B Medium Alligator Clip



Length: 55mm
with M4 screw

C3112 IC Test Clip



Length: 185mm
Plug: ø4mm Jack
Max 5A

MS3204 Thermocouple Adapter

k Type
Cx Type
Lx Type
hFE Type



MS3209 Thermocouple Adapter

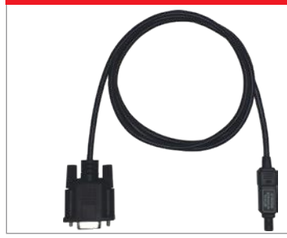
k Type



ACCESSORIES

DATA CABLES & FUSES

R3403 Data Line



Length:1000mm
(For MS2205)

R3405 Data Line



Length:1000mm
(For MS5308, MS7212, MS6701)

R3407 Data Line



Length:1000mm
(For MS8040, MS8050)

R3417 Data Line



Length:1000mm
(For MS5215, MS2308)

F3925 Fuse

ø5×20mm



F 250mA, 250V -VDE
F 400mA/10A, 250V -TUV

F3930A Fuse

ø5.5×21mm



F 250mA/400mA, 300V -UL

F3930B Fuse

ø6×32mm



F 10A, 300V -UL

F3900A Fuse

ø6.3×32mm



FF 250mA/400mA/600mA , H 1000V -TUV
FF 250mA/400mA/600mA, H 1000V -UL

F3900B Fuse

ø10×38mm



FF 250mA/400mA/630mA/10A, 1000V -UL

F3960 Fuse

ø6.3×32mm



FF 200mA/250mA/10A, H 600V -TUV
FF 250mA/400mA/600mA/10A, H 600V -UL

Part Number Index

MASTECH®

M

M2000G ---------- P074
M266 ---------- P073
M266C ---------- P073
M266F ---------- P073
M300C ---------- P040
M320 ---------- P040

MAS

MAS830 ---------- P043
MAS830L ---------- P043
MAS838 ---------- P044

MY

MY6243 ---------- P143
MY70 ---------- P047
MY74 ---------- P047
MY75 ---------- P048

MS1

MS102 ---------- P107
MS112 ---------- P107

MS3

MS3300 ---------- P091
MS3302 ---------- P091

MS7

MS7212 ---------- P137
MS7220 ---------- P135
MS7221 ---------- P136

MS9

MS922A ---------- P092
MS922D ---------- P092
MS922E ---------- P092

MS2

MS2006B ---------- P085
MS2009A ---------- P075
MS2009C ---------- P075
MS2016A ---------- P086
MS2025A ---------- P076
MS2025C ---------- P076
MS2028A ---------- P078
MS2030 ---------- P072
MS2030B ---------- P072
MS2033A ---------- P071
MS2101 ---------- P079
MS2109A ---------- P081
MS2125A ---------- P084
MS2128 ---------- P083
MS2128A ---------- P080
MS2160 ---------- P082
MS2203 ---------- P087
MS2205 ---------- P087
MS2225A ---------- P088
MS2301 ---------- P028
MS2302 ---------- P029
MS2306 ---------- P030
MS2308 ---------- P030
MS2601 ---------- P090

MS5

MS5201 ---------- P032
MS5203 ---------- P033
MS5205 ---------- P036
MS5206 ---------- P063
MS5208 ---------- P064
MS5215 ---------- P034
MS5308 ---------- P144
MS5900 ---------- P139
MS5901 ---------- P139
MS5902RTD ---------- P108
MS5902RTE ---------- P108
MS5902RTF ---------- P108
MS5905RTB ---------- P109
MS5905RTD ---------- P109
MS5905RTE ---------- P109

MS5

MS5908A ---------- P147
MS5908C ---------- P147
MS5911 ---------- P037
MS5911A ---------- P037
MS5911D ---------- P037
MS5922A ---------- P038
MS5922D ---------- P038
MS5922E ---------- P038

MS6

MS6013 ---------- P143
MS6100 ---------- P065
MS6252A ---------- P126
MS6252B ---------- P126
MS6252D ---------- P126
MS6208A ---------- P130
MS6208B ---------- P130
MS6300 ---------- P133
MS6310 ---------- P132
MS6404 ---------- P129
MS6406 ---------- P129
MS6408 ---------- P129
MS64100 ---------- P129
MS6500 ---------- P118
MS6505 ---------- P122
MS6508 ---------- P121
MS6511 ---------- P119
MS6512 ---------- P119
MS6513 ---------- P120
MS6514 ---------- P120
MS6518 ---------- P111
MS6522B ---------- P114
MS6531B ---------- P115
MS6531C ---------- P116
MS6541 ---------- P117
MS6561 ---------- P112
MS6580B ---------- P098
MS6610 ---------- P124
MS6612 ---------- P125
MS6612B ---------- P125
MS6612D ---------- P125
MS6701 ---------- P128

MS6

MS6708 ---------- P127
MS6810 ---------- P101
MS6811 ---------- P101
MS6812A ---------- P102
MS6813 ---------- P103
MS6818 ---------- P104
MS6860D ---------- P106
MS6860E ---------- P106
MS6900A ---------- P131

MS8

MS8040 ---------- P066
MS8050 ---------- P068
MS8209 ---------- P059
MS8223A ---------- P042
MS8229 ---------- P060
MS8233B ---------- P046
MS8233C ---------- P046
MS8233D ---------- P050
MS8233E ---------- P050
MS8236 ---------- P062
MS8238 ---------- P045
MS8238H ---------- P055
MS8239C ---------- P051
MS8239D ---------- P061
MS8250A ---------- P053
MS8250D ---------- P058
MS8251A ---------- P054
MS8251B ---------- P057
MS8269 ---------- P049
MS8301D ---------- P052
MS8333A ---------- P041
MS8361D ---------- P056
MS8900A ---------- P095
MS8900C ---------- P095
MS8902A ---------- P096
MS8902B ---------- P096
MS8907 ---------- P097
MS8910 ---------- P141
MS8911 ---------- P142
MS8916A ---------- P094
MS8922A ---------- P099
MS8922B ---------- P099