

HONG KONG

PRECISION MASTECH ENTERPRISES
(HONG KONG) LIMITED

251, 20/F, Central Tower,
28 Queen's Road, Central,
Hong Kong.
Tel: +852-2343-0007
Fax: +852-2343-6217

<http://www.p-mastech.com>
info@p-mastech.com

MASTECH®

CHINA

DONGGUAN HUAYI
MASTECH COMPANY LIMITED

72 Puxing East Road,
Qingxi, Dongguan,
Guangdong, China.
Tel: +86-769-8190-1668
Fax: +86-769-8190-1600

<http://www.p-mastech.com>
info@p-mastech.com

TAIWAN

PRECISION MASTECH ENTERPRISES
(TAIWAN) CORPORATION

Flat 5-1, 5/F,
No. 37, Section 3,
Minquan East Road,
Taipei, Taiwan R.O.C.
Tel: +886 2-2508-0877
Fax: +886 2-2506-6970

<http://www.p-mastech.com>
info@p-mastech.com

This catalog may only carry limited information of our products.
Please contact our sales representatives or visit our website for further details.
Specifications and other information shown on this catalog are subject to change without notice.
Please contact our sales representatives for details.
Copyright © 2015 Precision Mastech Enterprises (Hong Kong) Limited.
All rights reserved. Unless otherwise indicated, all materials on this catalog are copyrighted by
Precision Mastech Enterprises (Hong Kong) Limited.



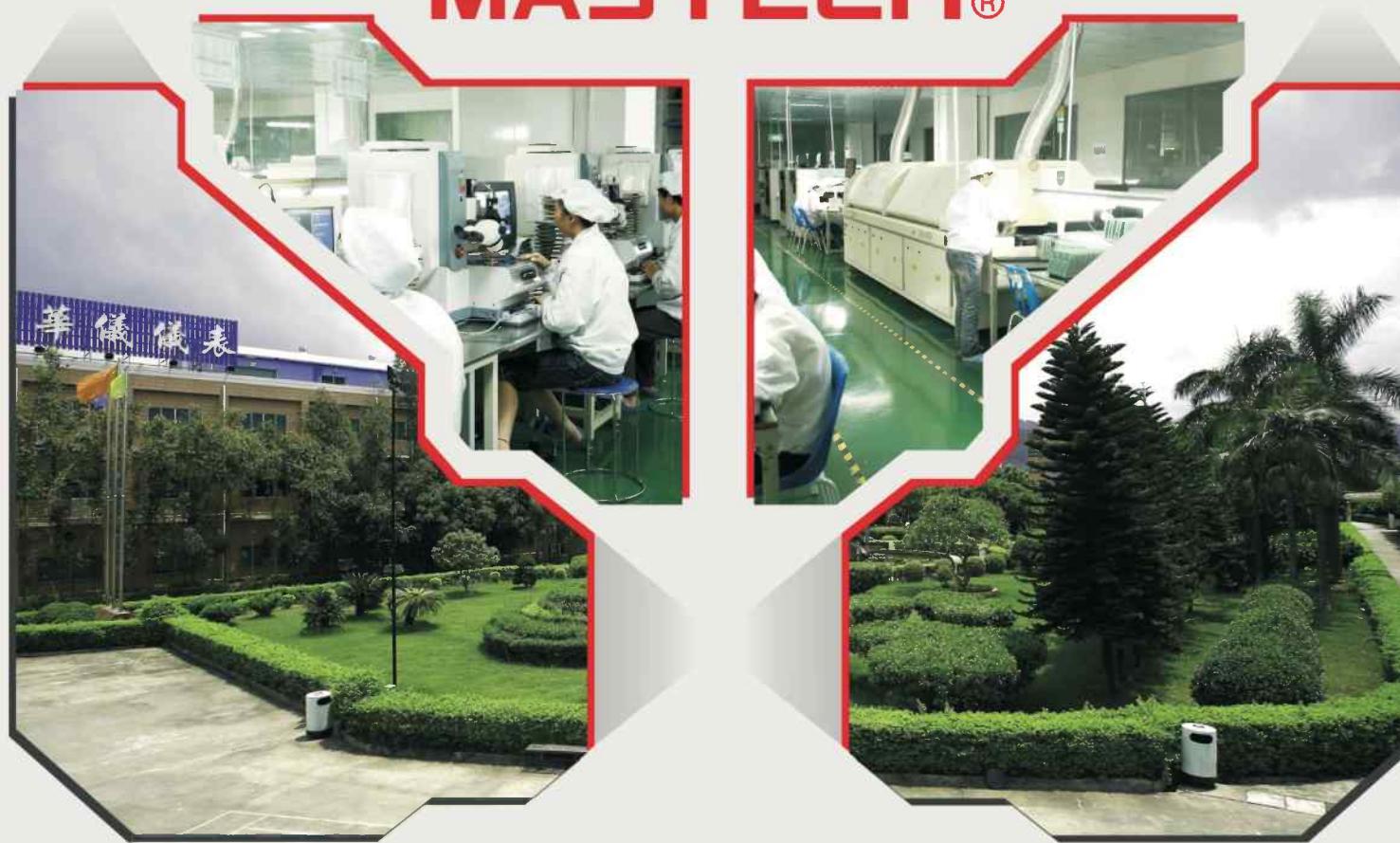
2016

NEW PRODUCTS
FOUNDED IN 1987 CATALOG





MASTECH®



MASTECH founded in 1987, is the world's largest instrument manufacturer and the world's leading provider of electronic measuring instruments. One of the test instruments manufactured by MASTECH is a well-known brand recognized by a leader in the industry "High-Tech Enterprises" in Guangdong Province, who is the main drafter of the national standard.

Technology innovation is the source for developing MASTECH. MASTECH Engineering R & D Center is the industry's leading design institution. We have an abundance of high-quality corporate R & D personnel along with first-class sophisticated testing equipment and years of experienced design team. We have strived globally for design innovation, higher quality, safer, durable, accurate and cost-effective technological products to meet customers' needs. In the same time, technological innovation and outstanding ability to provide global customers with a better ODM product design services.

Annual capacity of 3.5 million sets of various types of modern instruments, garden-style, large-scale production base is an important competitive advantage with MASTECH. The company occupies more than twenty thousand square meters, with 15 thousand square meters of central air conditioning system - clean plant. Advanced automatic assembly debugging flow-through and flexible production lines, advanced SMT workshop, injection workshop, silk screen shop, UL table pen test line production workshop, mold design and processing centers, measuring and testing center, first-class production facilities with excellent environment and a huge capacity to provide a stable product supply, ensure that the company maintains its industry leadership. Enterprise and quality management is the core of our successful development of MASTECH. The company has a younger, better educated and more professional management team. MASTECH were the first in the industry with advanced ERP implementation of enterprise information management. From financial management, marketing, product development, manufacturing, logistics management and after-sales service and other aspects fully integrated information management system to ensure efficient operation of the enterprise. The company also established by the international certification body TUV Rheinl and Certification of ISO9001 international quality standard management system. From supplier selection, incoming inspection to every aspect of production are strictly comply with international quality AQL inspection standard. MASTECH's strict compliance with PDCA and our continuous improvement cycle mode have ensured customers with quality products and meeting their demands.

With our rich product chain, our continuous effort to improve and upgrade are the most important means to win the market at MASTECH. MASTECH successfully markets different fields involving 200 kinds of products that have won widespread praise. We are in the mass production of digital multi-meter and clamp meter as well as electrical testing equipment, safety testing equipment, field instrumentation, analytical instruments, general instrument laboratory, environmental testing equipment, network cable tester, intelligent vehicle detector, and many other high-tech products. MASTECH's R & D and manufacturing are in strict compliance with International Electrotechnical Commission. We follow both safety standards and environmental standards and our products have received various certifications such as EU CE certification, American UL/ETL, and German GS certification. MASTECH has laid a solid foundation and is gradually expanding to every corner of the global market.

Global marketing network and perfect after-sales service system is the driving force of the rapid development of MASTECH. After twenty years of unremitting efforts, MASTECH established more than 700 global strategic partners, selling products in more than one hundred countries and regions in the world. In China, MASTECH brand has always been a leader trusted by customers, and an annual growth rate of 30% of the lead industry. MASTECH product not only is the customer's first choice, but also instruments in the international market of China's famous brand.



MASTECH®



EARTH RESISTANCE TESTERS

- MS2306 / MS2307 / MS2308 17-18
Advanced Earth Resistance Tester
- MS2302 19
Earth Resistance Tester
- MS2309 20
Low Resistance Tester
- MS2301 21
Earth Resistance Clamp Meter
- MS5209 22
Analog Earth Resistance Tester

INSULATION TESTERS

- MS5215 23-24
High Voltage Digital Insulation Tester
- MS5203 / MS5203A 25
Digital Insulation Tester
- MS5205 26
Digital Insulation Tester
- MS5201 27
Digital Insulation Tester
- MS5202 28
High Voltage Insulation Tester

DIGITAL MULTIMETERS

- M300 / M300C / M320 / M320C 29
Pocket Digital Multimeter
- MS8332C 30
Pocket Digital Multimeter with NCV
- MS8211 / MS8211D 31
Pen-Type Digital Multimeter with NCV
- MS8212A / MS8223A 32
Pen-Type Digital Multimeter with NCV
- MAS830 / MAS830C Series 33-34
Digital Multimeter
- MS8233A / B / C / D / E / Z 35-36
Digital Multimeter with NCV
- MS8238 / A / B / C / G 37-38
Digital Multimeter with NCV

DIGITAL MULTIMETERS

- MS8238D 39
Digital Multimeter 
- MS8239A / MS8239B / MS8239C 40
Digital Multimeter
- MS821A / B / C / D / E / F 41-42
Digital Multimeter
- MS8301A / MS8301B 43
Digital Multimeter
- MS8229 / MS8229N / MS8229G 44
Digital Multimeter with Environment
- MY70 / 74 / 74B / 75 / 78 45-46
Digital Multimeter
- MS8360C / E / F / G 47-48
Digital Multimeter with NCV
- MS8250A / MS8250B / MS8250D 49
Digital Multimeter with NCV
- MS8250G 50
Digital Multimeter 
- MS8251A / MS8251B / MS8251C 51
Digital Multimeter with NCV
- MS8340A / MS8340B 52
Digital Multimeter
- MS8040 53
Bench Top Multimeter with 22000 counts
- MS8050 54
Bench Top Multimeter with 53000 counts
- MS8216 / MS8217 55-56
Digital Multimeter
- MY60 / 61 / 62 / 63 / 64 / 65 57-58
Digital Multimeter
- MS8261 / 64 / 69 / 65 / 68 59-60
Digital Multimeter
- MS8209 / MS8228 61-62
Digital Multimeter with Environment
- MS8235 / MS8236 63
Network Multimeter with Lan/Phone/Tone
- MS5208 64
Digital Insulation Multimeter
- MS6100 65
Multi-Function Digital Counter
- M9803R 66
True RMS Multimeter

DIGITAL CLAMP METERS

- M266 / M266C / M266F 67
Digital AC Clamp Meter
- MS2001 / MS2001C / MS2101 68
Digital AC/DC Clamp Meter
- MS2030 / MS2030A / MS2030B 69
Digital AC Clamp Meter with NCV
- MS2033C / MS2160 70
Digital AC/DC Clamp Meter with NCV
- MS2028A / MS2028B 71
Digital AC Clamp Meter
- MS2108T / MS2128 / MS2128A 72
Digital AC/DC Clamp Meter
- MS2009A / MS2009C / MS2109A 73
Digital AC/DC Clamp Meter
- MS2600 / MS2601 74
Digital AC/DC Clamp Meter with NCV
- MS2025A / MS2025C 75
Digital AC Clamp Meter with NCV
- MS2125A / MS2125B 76
Digital AC/DC Clamp Meter with NCV
- MS2140A / MS2140B 77
Digital AC/DC Clamp Meter with NCV
- MS2140C 78
Digital AC/DC Clamp Meter with NCV
- MS2026 / MS2026R 79
Digital AC Clamp Meter
- MS2138 / MS2138R 80
Digital AC/DC Clamp Meter
- MS2006B 81
High Sensitivity AC Leakage Clamp Meter
- MS2010A / MS2010B 82
High Sensitivity AC Leakage Clamp Meter
- MS2203 / MS2205 83
Three Phase Digital Power Clamp Meter
- MS2228 84
Single Phase Harmonic Power Clamp Meter
- MS2000G / MS2000R 85
Digital AC/DC Clamp Meter
- MS3300 / MS3302 86
Digital AC Clamp Meter

INFRARED THERMOMETERS

- MS6518 / MS6520H (F) 87
Non-Contact Infrared Thermometer
- MS6508B (F) 88
Non-Contact Infrared Thermometer with NCV
- MS6522A / MS6522B / MS6522C (F) 89
Non-Contact Infrared Thermometer
- MS6531A / MS6531B / MS6531C (F) 90
Non-Contact Infrared Thermometer Color LCD
- MS6532 / MS6532A / MS6532B (F) 91
Non-Contact Infrared Thermometer
- MS6530T / MS6541 (F) 92
Non-Contact Infrared Thermometer
- MS6542A / MS6542B (F) 93
Non-Contact Infrared Thermometer
- MS6552A / MS6552B (F) 94
Non-Contact Infrared Thermometer

DIGITAL THERMOMETERS

- MS6508 95
Thermometer Humidity Meter
- MS6500 / MS6501 96
Digital Thermometer
- MS6511 / 6512 / 6513 / 6513A 97-98
Digital Thermometer
- MS6514 / MS6514A 99
Digital Thermometer with Data Logging / SD Card
- MS6503 / MS6505 100
Humidity Temperature Meter

CIRCUIT TESTERS

- MS6860B / C / D / E 101
Socket Tester
- MS102 / MS112 102
3 Wire / GFCI Outlet Tester
- MS5902RTB / C / D / E / F 103
Circuit Breaker Finder
- MS5905RTA / B / C / D / E 104
Circuit Breaker Finder with NCV

OTHER TESTING INSTRUMENTS

- MS5900 / MS5901 105
Motor & Phase Rotation Indicator
- MS5908A / MS5908C 106
Circuit Analyzer
- MS5910 107
RCD/Loop Tester
- MS7103 108
Power Inverter

PROCESS CALIBRATORS

- MS7221 109
Voltage / mA Calibrator
- MS7220 110
Thermocouple Calibrator
- MS7212 111
Multi-Functions Process Calibrator

DIGITAL LCR METERS

- MS8910 / MS8910A 112
Smart SMD Tester
- MS6013 / MY6243 113
Digital LCR Meter
- MS5308 114
Digital LCR Tester

ELECTRICAL METERS

- MS8900A / MS8900N 115
AC Voltage Detector
- MS8902A / MS8902B / MS8902H 116
AC Voltage Detector
- MS8904A 117
AC Voltage Detector
- MS8907 / MS8907H 118
AC Voltage Detector
- MS8922A / MS8922H 119
AC Voltage Tester

WIRE TESTERS

- MS6810 / MS6811 120
Network Cable Tester
- MS6812 121
Cable Tracker
- MS6813 122
Multi-Functions Wire Tracer
- MS6818 123-124
Advanced Wire Tracker

ENVIRONMENTAL METERS

- MS6610 125
Digital Light Meter (Lux)
- MS6612 / MS6612T 126
Digital Light Meter (Lux/FC/CD)
- MS6208A / MS6208B 127
Digital Tachometer
- MS6252A / MS6252B 128
Digital Anemometer
- MS6414 / 6416 / 6418 / 64100 129
Laser Distance Meter
- MS6450 130
Ultrasonic Distance Meter
- MS6900 / MS6900A 131
Moisture Tester
- MS6310 132
Combustible GAS Detector
- MS6700 / MS6701 133
Digital Sound Level Meter
- MS6702 / MS6708 134
Digital Sound Level Meter
- MS6300 135
Multi-Functions Environment Tester
- MS921 / MS922D / MS922E 136
AC Line Splitter
- T3008U / T3009U / T3016U 137-140
Test Leads & K Type Thermocouple.....

ACCESSORIES

EARTH RESISTANCE TESTERS

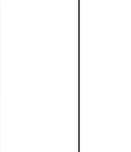
EARTH RESISTANCE TESTERS							
CAT III	MASTECH®						
Page	17-18	17-18	17-18	19	20	21	22
Model	MS2306	MS2307	MS2308	MS2302	MS2309	MS2301	MS5209
Certificate	CE	CE	CE	CE / ETL	CE / ETL	CE / ETL	
Safety Rating	CAT III 300V	CAT III 300V	CAT III 300V	CAT III 300V	CAT III 300V	CAT III 150V	
Resistance	0.02Ω~20kΩ	0.02Ω~30kΩ	0.02Ω~300kΩ	0.01Ω~4000Ω	4.00000~400.000Ω	0.01Ω~1200Ω	1Ω~1000Ω
Measurement Voltage	AC 20V/48V DC 20V	AC 20V/48V DC 20V	AC 20V/48V DC 20V	AC 300V	AC 600V	AC 20V/48V DC 20V	AC 30V
Sensing & Inducing Current Transformer		●	●				
Interface		USB	USB		USB		
Back Light	●	●	●	●	●		

INSULATION TESTERS

INSULATION TESTERS					
	CAT II	CAT III	CAT IV	MASTECH®	
					
Page	23-24	25	25	26	27
Model	MS5215	MS5203	MS5203A	MS5205	MS5201
Certificate	CE	CE	CE	CE / ETL	
Safety Rating	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V	CAT II 1000V CAT III 600V
Resistance	0.01MΩ~5TΩ	0.01MΩ~10GΩ	0.01MΩ~10GΩ	0.01MΩ~100GΩ	0.01MΩ~2GΩ
Output Voltage	5kV DC	1kV DC	1kV DC	2.5kV DC	1kV DC
Leakage Current Tests	1.00nA~3.00mA				
Continuity Tests		0.01MΩ~200.0GΩ (1mA)	0.01MΩ~200.0GΩ (MAX 250mA)		
Voltage Tests	1000V	1000V	1000V	1000V	1000V
Short Current	3mA	1.8mA	1.8mA	3mA	1.8mA
Temperature Tests	-10~70.0°C				
Interface	USB				
Back Light	●	●	●	●	

DIGITAL MULTIMETERS

DIGITAL MULTIMETERS

	 CAT II	 CAT III	MASTECH®									
												
Page	33	34	34	34	34	35	35	35	36	36	36	37
Model	MAS830BC	MAS830L	MAS830LC	MAS838	MAS838C	MS8233A	MS8233B	MS8233C	MS8233D	MS8233E	MS8233Z	MS8238
Certificate	CE	CE / ETL	CE	CE / ETL	CE	CE / ETL						
Safety Rating	CAT III 300V	CAT II 600V CAT III 600V	CAT III 300V	CAT II 600V CAT III 600V	CAT III 300V	CAT II 600V CAT III 600V	CAT III 600V	CAT II 600V CAT III 300V				
Display Counts	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	4000	2000
Autoranging									●	●	●	
Auto Power off									●	●	●	
DC Voltage	300V	600V	300V	600V	300V	600V						
AC Voltage	300V	600V	300V	600V	300V	600V						
DC Current	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A
AC Current									10A	10A	10A	
Resistance	2MΩ	2MΩ	2MΩ	2MΩ	2MΩ	20MΩ	20MΩ	20MΩ	20MΩ	20MΩ	40MΩ	2MΩ
Capacitance											200μF	
Frequency									20kHz		10MHz	
Duty Cycle										●		
Battery Test											1.5/9/12V	
Type-K Temperature				-20~1000°C	-20~1000°C			-20~1000°C -4~1832°F		-20~1000°C -4~1832°F	-20~1000°C -4~1832°F	
Diode	●	●	●	●	●	●	●	●	●	●	●	●
Continuity	●	●	●	●	●	●	●	●	●	●	●	●
Back Light	●	●				●	●	●	●	●	●	
Data Hold	●	●	●	●	●	●	●	●	●	●	●	●
MAX									●	●	●	
NCV								●	●	●	●	

DIGITAL MULTIMETERS

												
Page	37	37	38	38	39	40	40	40	41	41	41	42
Model	MS8238A	MS8238G	MS8238B	MS8238C	MS8238D	MS8239A	MS8239B	MS8239C	MS8321A	MS8321B	MS8321C	MS8321D
Certificate	CE / ETL	CE	CE	CE / ETL								
Safety Rating	CAT II 600V CAT III 300V	CAT II 600V CAT III 300V	CAT III 600V									
Display Counts	2000	2000	2000	2000	4000	2000	2000	4000	2000	2000	2000	2000
Autoranging				●	●			●				
Auto Power off				●	●			●	●	●	●	●
DC Voltage	600V	600V	600V	600V	1000V	600V						
AC Voltage	600V	600V	600V	600V	750V	600V						
DC Current	10A											
AC Current	10A		10A	10A	10A		10A	10A	10A	10A	10A	10A
Resistance	2MΩ	2MΩ	2MΩ	20MΩ	40MΩ	2MΩ	2MΩ	40MΩ	20MΩ	20MΩ	2MΩ	20MΩ
Capacitance								100µF				
Frequency								10MHz				
Duty Cycle								●				
Battery Test	1.5/9/12V	1.5/9/12V	1.5/9/12V	1.5/9/12V	1.5/9V	1.5/9/12V	1.5/9/12V			1.5/9/12V		
Type-K Temperature				-20~750°C -4~1382°F	-20~1000°C -4~1832°F			-20~1000°C -4~1832°F		-20~1000°C -4~1832°F		
True RMS				●								
Diode	●	●	●	●	●	●	●	●	●	●	●	●
Continuity	●	●	●	●	●	●	●	●	●	●	●	●
Back Light								●				
Data Hold	●	●	●	●	●	●	●	●	●	●	●	●
hFE Transistor									●		●	●
ECBE (NPN PNP)												●
NCV	●	●	●	●	●							
Bluetooth					●							

DIGITAL MULTIMETERS

CAT II CAT III

Page	42	42	43	43	44	44	44	45	45	45	46	46
Model	MS8321E	MS8321F	MS8301A	MS8301B	MS8229	MS8229N	MS8229G	MY70	MY74	MY74B	MY75	MY78
Certificate			CE / ETL	CE / ETL		ETL	CE	CE / ETL				
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT II 1000V CAT III 600V	CAT II 1000V CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT II 600V CAT III 600V
Display Counts	2000	2000	2000	4000	4000	4000	4000	2000	2000	2000	20000	4000
Autoranging				●	●	●	●					●
Auto Power off	●	●		●	●	●	●	●	●	●	●	●
DC Voltage	600V	600V	600V	600V	1000V	1000V	500V	600V	600V	600V	600V	600V
AC Voltage	600V	600V	600V	600V	750V	750V	500V	600V	600V	600V	600V	600V
DC Current	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A
AC Current	10A	10A		10A	10A	10A	10A	10A	10A	10A	10A	10A
DC Current (for Clamp Meter)												40A/400A
AC Current (for Clamp Meter)												40A/400A
Resistance	20MΩ	2MΩ	2MΩ	40MΩ	40MΩ	40MΩ	40MΩ	200MΩ	200MΩ	200MΩ	200MΩ	40MΩ
Capacitance					100µF	100µF	100µF		100µF	100µF	100µF	200µF
Frequency					100kHz	200kHz	200kHz	200kHz		20kHz	20kHz	20kHz
Duty Cycle				●								●
Battery Test	1.5/9/12V		1.5V/9V									
Type-K Temperature	-20~1000°C -4~1832°F			-20~1000°C -4~1832°F	-20~1000°C -4~1832°F	-20~1000°C -4~1832°F	-20~1000°C -4~1832°F		-20~1000°C -4~1832°F	-20~1000°C -4~1832°F		
Environment Temperature					0~40°C 32~104°F	0~40°C 32~104°F	0~40°C 32~104°F					
Relative Humidity					20~95%	20~95%	20~95%					
Sound Level					35~100dB	35~100dB	35~100dB					
Relative Measurement												●
Diode	●	●	●	●	●	●	●	●	●	●		●
Continuity	●	●	●	●	●	●	●	●	●	●		●
Back Light				●	●	●	●					
Work Light				●								
Data Hold	●	●	●	●	●	●	●	●	●	●		●
hFE Transistor		●						●	●	●		●
ECBE (NPN PNP)		●										
NCV				●								
Sound & Light Warning (Plug)					●							

DIGITAL MULTIMETERS

EAT II EAT III EAT IV

	MS8360C	MS8360E	MS8360F	MS8360G	MS8250A	MS8250B	MS8250D	MS8250G	MS8251A	MS8251B	MS8251C	MS8340C
Page	47	47	48	48	49	49	49	50	51	51	51	52
Model	MS8360C	MS8360E	MS8360F	MS8360G	MS8250A	MS8250B	MS8250D	MS8250G	MS8251A	MS8251B	MS8251C	MS8340C
Certificate	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE	CE	CE	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / GS
Safety Rating	CAT II 1000V CAT III 600V	CAT IV 600V	CAT IV 600V	CAT III 1000V CAT IV 600V								
Display Counts	2000	2000	4000	4000	4000	4000	6600	6600	6600	6600	4000	6000
Autoranging			●	●	●	●	●	●	●	●	●	●
Auto Power off	●	●	●	●	●	●	●	●	●	●	●	●
DC Voltage	600V	600V	600V	600V	600V	600V	1000V	1000V	1000V	1000V	1000V	1000V
AC Voltage	600V	600V	600V	600V	600V	600V	1000V	1000V	1000V	1000V	1000V	750V
DC Current	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A
AC Current	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A
Resistance	200MΩ	200MΩ	40MΩ	400MΩ	40MΩ	40MΩ	66MΩ	66MΩ	66MΩ	66MΩ	40MΩ	60MΩ
Capacitance	200µF	200µF	200µF	4000µF	100µF	100µF	66mF	660mF	66mF	66mF	40mF	400µF
Frequency	20kHz		10MHz	10MHz	5MHz	5MHz	66MHz	66MHz	66MHz	66MHz	40MHz	10MHz
Duty Cycle			●	●	●	●	●	●	●	●	●	●
Type-K Temperature	-20~1000°C			-20~1000°C -4~1832°F				-20~1000°C -4~1832°F	0~1000°C 32~1832°F	0~1000°C 32~1832°F	0~1000°C 32~1832°F	-10~700°C 14~1292°F
True RMS							●	●		●	●	
MAX / MIN				●			●	●	●	●	●	●
Bar Graph				●			●	●	●	●	●	●
Relative Measurement			●	●	●	●	●	●	●	●	●	●
Diode	●	●	●	●	●	●	●	●	●	●	●	●
Continuity	●	●	●	●	●	●	●	●	●	●	●	●
Back Light	●	●	●	●	●	●	●	●	●	●	●	●
Data Hold	●	●	●	●	●	●	●	●	●	●	●	●
hFE Transistor	●	●	●	●								
Low Impedance Input Mode										●		
Low Pass Filter												●
NCV	●	●	●	●	●	●	●	●	●	●	●	
Interface						USB	USB					
Bluetooth								●				

DIGITAL MULTIMETERS

CAT II CAT III

MASTECH®

Page	52	53	54	55	56	57	57	57	58	58	58	59
Model	MS8340B	MS8040	MS8050	MS8216	MS8217	MY60	MY61	MY62	MY63	MY64	MY65	MS8261
Certificate	CE / GS	CE	CE	ETL								
Safety Rating	CAT III 1000V	CAT II 1000V	CAT II 1000V	CAT II 1000V	CAT II 1000V	CAT III 600V	CAT II 1000V	CAT III 600V				
Display Counts	22000	22000	53000	4000	4000	2000	2000	2000	2000	20000	2000	
Autoranging	●	●	●	●	●							
Auto Power off	●	●	●	●	●	●	●	●	●	●	●	●
DC Voltage	1000V	1000V	1000V	600V	1000V							
AC Voltage	700V	750V	1000V	600V	1000V	750V						
DC Current	10A	10A	10A		10A							
AC Current	10A	10A	10A		10A							
DC Current (for Clamp Meter)		220/2200A										
AC Current (for Clamp Meter)		220/2200A										
Resistance	220MΩ	200MΩ	50MΩ	40MΩ	40MΩ	200MΩ	200MΩ	200MΩ	200MΩ	200MΩ	200MΩ	
Capacitance	220mF	200mF	5000pF	200pF	100pF	100pF	100pF	100pF	100pF	20pF	20pF	
Frequency	220kHz			200kHz	100kHz							
Logic Frequency		220MHz	2MHz									
Linear Frequency		100kHz	200kHz									
Duty Cycle	●	●	●		●							
Type-K Temperature		-30~1300°C -22~2372°F			-55~1000°C		-20~1000°C		-20~1000°C			
True RMS	●	●	●									
MAX / MIN	●	●	●									
MAX-MIN / AVG			●									
Data Logging			30 groups									
Bar Graph		●										
PC Analysis Software			●									
Relative Measurement	●	●	●	●	●							
Peak Measurement	●	●										
Diode	●	●	●	●	●	●	●	●	●	●	●	
Continuity	●	●	●	●	●	●	●	●	●	●	●	
Back Light	●	●	●		●							
Data Hold	●	●	●	●	●	●	●	●	●	●	●	
hFE Transistor												
Low Pass Filter	●	●										
Interface	USB	USB	USB									

DIGITAL MULTIMETERS

CAT II CAT III

MASTECH®

Page	59	59	60	60	61	62	63	63	64	65	66
Model	MS8264	MS8269	MS8265	MS8268	MS8209	MS8228	MS8235	MS8236	MS5208	MS6100	M9803R
Certificate									ETL	ETL	
Safety Rating	CAT II 1000V CAT III 600V	CAT III 600V	CAT III 600V	CAT II 1000V							
Display Counts	2000	2000	20000	4000	4000	4000	2000	2000	6600	22000	4000
Autoranging				●	●	●	●	●	●	●	●
Auto Power off	●	●	●	●	●	●	●	●	●	●	●
DC Voltage	1000V	1000V	1000V	1000V	600V	1000V	600V	1000V	600V	1000V	1000V
AC Voltage	750V	750V	750V	750V	600V	750V	600V	750V	600V	750V	750V
DC Current	10A	10A	400mA	10A							
AC Current	10A	10A	400mA	10A							
Resistance	200MΩ	200MΩ	200MΩ	40MΩ	40MΩ	40MΩ	40MΩ	40MΩ	20MΩ	60MΩ	40MΩ
Capacitance	200μF	200μF	200μF	200pF	200pF	200pF	200pF	200pF		60μF	40μF
Frequency	20kHz		200kHz	200kHz			200kHz	200kHz		10kHz	1300MHz
Inductance					20H						
ADP Measurement											400mV
Duty Cycle						●	●	●			
Type-K Temperature	-20~1000°C -22~2372°F	-20~1000°C				-20~1000°C				-30~1300°C -22~2372°F	
Infrared Temperature							-20~300°C -4~572°F				
Environment Temperature							0~40°C 32~104°F				
Relative Humidity							30~90%				
Sound Level							35~100dB				
Luminosity							40000Lux				
Check									Phone Network	Phone Network Tone	
True RMS									●	●	
MAX / MIN / AVG								MAX	MAX	MAX/MIN/AVG	MAX / MIN
NCV									●	●	
Data Logging										100 groups	
Relative Measurement										●	●
Diode	●	●	●	●	●	●	●	●	●	●	●
Continuity	●	●	●	●	●	●	●	●	●	●	●
Back Light	●	●	●	●	●	●	●	●	●	●	●
Data Hold	●	●	●	●	●	●	●	●	●	●	●
hFE Transistor									●		
Low Pass Filter										●	
OSC. Out											10MHz
Interface											USB
Sound & Light Warning											

DIGITAL CLAMP METERS

CAT II CAT III



DIGITAL CLAMP METERS

CAT II CAT III



Page	72	72	73	73	73	74	74	75	75	76	76	77	77	78
Model	MS2128	MS2128A	MS2009A	MS2009C	MS2109A	MS2600	MS2601	MS2025A	MS2025B	MS2125A	MS2125B	MS2140A	MS2140B	MS2140C
Certificate	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	ETL	ETL	ETL
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 1000V	CAT III 1000V	CAT III 1000V	CAT III 1000V	CAT II 1000V	CAT II 1000V	CAT II 1000V
Display Counts	6600	4000	2000	6000	6000	4000	6000	6000	6600	6000	6000	6000	6000	6000
Jaw Size	Φ26mm 1.0"	Φ26mm 1.0"	Φ26mm 1.0"	Φ26mm 1.0"	Φ26mm 1.0"	Φ12mm 0.5"	Φ12mm 0.5"	Φ40mm 1.6"	Φ40mm 1.6"	Φ40mm 1.6"	Φ40mm 1.6"	Φ40mm 1.6"	Φ40mm 1.6"	Φ40mm 1.6"
Autoranging	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto Power off	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DC Voltage	600V	1000V	600V	600V	600V	1000V	600V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
AC Voltage	600V	750V	600V	600V	600V	700V	600V	750V	750V	750V	750V	1000V	1000V	1000V
LO-Z (DCV / ACV)							600V							
DC Current	600A	400A			600A		1000µA			1000A	1000A	600A	1000A	1000A
AC Current	600A	400A	600A	600A	600A	200A	200A	1000A	1000A	1000A	1000A	600A	1000A	1000A
Inrush Current	600A									1000A	1000A	600A	1000A	1000A
Resistance	66MΩ	40MΩ	20MΩ	60MΩ	60MΩ	40MΩ	60MΩ	60MΩ	66MΩ	60MΩ	60MΩ	60MΩ	60MΩ	60MΩ
Capacitance	66mF	4000µF		60mF	4000µF	40µF	60mF	100mF	66mF	100mF	60mF	60mF	60mF	60mF
Frequency	10kHz	10kHz		10MHz	10MHz	100kHz	60MHz	10MHz	66MHz	10MHz	60MHz	60MHz	60MHz	60MHz
Duty Cycle	●	●		●	●		●	●	●	●	●	●	●	●
Type-K Temperature				-20~1000°C -4~1832°F	-20~1000°C -4~1832°F		-20~400°C 32~752°F		-20~1000°C -4~1832°F			-40~500°C -40~932°F	-40~500°C -40~932°F	-40~500°C -40~932°F
True RMS	●							●	●	●	●			
Infrared Temperature														-20~350° -32~662°F
Optical Resolution														6:1
Emissivity														0.95
MAX	●	●	●		●			●	●	●	●	●	●	●
MIN	●	●			●			●	●	●	●	●	●	●
Dual Display									●	●	●	●	●	●
Bar Graph		●							●	●	●	●	●	●
NCV			●	●	●		●	●	●	●	●	●	●	●
Relative Measurement					●	●		●	●	●	●	●	●	●
Diode	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Continuity	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Back Light	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Work Light	●	●	●	●	●		●	●	●	●	●	●	●	●
Data Hold	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Interface											USB			

DIGITAL CLAMP METERS

CAT II CAT III CAT IV

MASTECH®

	MS2026	MS2026R	MS2138	MS2138R	MS2006B	MS2010A	MS2010B	MS2203	MS2205	MS2228	MS2000G	MS2000R	MS3300	MS3302
Page	79	79	80	80	81	82	82	83	83	84	85	85	86	86
Model	MS2026	MS2026R	MS2138	MS2138R	MS2006B	MS2010A	MS2010B	MS2203	MS2205	MS2228	MS2000G	MS2000R	MS3300	MS3302
Certificate					ETL	ETL	CE / ETL	CE / ETL	ETL					
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT II 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT II 1000V	CAT II 1000V	CAT II 600V	CAT II 600V	CAT II 600V
Display Counts	6000	6000	4000	4000	2000	2000	4000	9999	6000	6000	2000	4000		
Jaw Size	Φ40mm 1.6"	Φ40mm 1.6"	Φ40mm 1.6"	Φ40mm 1.6"	Φ31mm 1.2"	Φ31mm 1.2"	Φ31mm 1.2"	Φ50mm 2.0"	Φ50mm 2.0"	Φ26mm 1.0"	Φ55mm 2.2"	Φ55mm 2.2"	Φ55mm 2.2"	Φ28mm 1.1"
Autoranging	●	●	●	●		●	●	●	●	●	●	●		
Auto Power off	●	●	●	●	●	●	●	●	●	●	●	●		
DC Voltage	1000V	1000V	600V	600V		600V	600V			1000V	1000V			
AC Voltage	750V	750V	600V	600V		600V	600V	600V	600V	750V	750V			
DC Current			1000A	1000A						1000A	1000A			
AC Current	1000A	1000A	1000A	1000A	60A	600A	600A	1000A	1000A	200A	2000A	1000A	1000A	400A
Resistance	60MΩ	60MΩ	40MΩ	40MΩ		20MΩ	20MΩ			2MΩ	40MΩ			
Capacitance	4000pF	4000pF	4000pF	4000pF			100pF							
Frequency	10MHz	10MHz	10MHz	10MHz		100kHz	1000Hz		1kHz	20kHz	400kHz			
Active Power						600kW	600kW	120kW						
Apparent Power						600kVA	600kVA	120kVA						
Reactive Power						600kVar	600kVar	120kVar						
Power Factor						0.3~1	0.3~1	0.3~1						
Active Energy						9999kWh								
Harmonic Measurement							45~65Hz	45~65Hz						
Duty Cycle	●	●	●	●			●							
Type-K Temperature					-20~1000°C -4~1832°F	-20~1000°C -4~1832°F				0~750°C 32~1382°F				
True RMS	●	●	●	●						●	●			
MAX	●	●	●	●		●	●	●	●	●	●			
MIN	●	●	●	●		●	●	●	●	●	●			
Data Logging					28 groups	100 groups								
Bar Graph			●	●			●							
Relative Measurement	●	●	●	●		●				●				
Diode	●	●	●	●		●	●			●				
Continuity	●	●	●	●		●	●			●	●			
Back Light	●	●	●	●		●	●	●	●	●	●			
Work Light	●	●	●	●		●	●	●	●	●	●			
Data Hold	●	●	●	●		●	●	●	●	●	●			
Fixation Range										●				
Low Pass Filter					●	●								
Interface					RS232	RS232								

INFRARED THERMOMETERS

CAT II CAT III CAT IV

MASTECH®

	MS6518	MS6520H	MS6580B	MS6522A	MS6522B	MS6522C	MS6531A	MS6531B	MS6531C
Page	87	87	88	89	89	89	90	90	90
Model	MS6518	MS6520H	MS6580B	MS6522A	MS6522B	MS6522C	MS6531A	MS6531B	MS6531C
Certificate	CE	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL
Safety Rating			CAT II 1000V CAT III 600V						
Color Display							●	●	●
AC Voltage (Body:5~15cm)			1000V						
IRT Temperature	30~42°C 86~108°F				30~42°C 86~108°F				
K-TYPE Temperature		-20~300°C -4~572°F	20~330°C 32~626°F	-20~300°C -4~572°F	-20~500°C -4~932°F	0~100°C -4~212°F	-60~500°C -76~932°F	-40~800°C -40~1472°F	-40~800°C -40~1472°F
Optical Resolution	10:1	10:1	4:1	10:1	10:1	10:1	12:1	12:1	12:1
Emissivity	0.98	0.95	0.95	0.95	0.95	0.95	0.10~1.00	0.10~1.00	0.10~1.00
Data Logging	10 groups							20 groups	
Reading Hold	●	●	●	●	●	●	●	●	●
MAX/MIN/AVG/DIF		MAX/MIN/AVG		MAX/MIN/AVG	MAX/MIN/AVG	MAX	●	●	●
NCV			●						
Back Light	●	●		●	●	●	●	●	●
Work Light			●				●	●	●

INFRARED THERMOMETERS

MASTECH®

	MS6532	MS6532A	MS6532B	MS6530T	MS6541	MS6542A	MS6542B	MS6552A	MS6552B
Page	91	91	91	92	92	93	93	94	94
Model	MS6532	MS6532A	MS6532B	MS6530T	MS6541	MS6542A	MS6542B	MS6552A	MS6552B
Certificate	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE / ETL
IRT Temperature	-20~537°C -4~999°F	-20~850°C -4~1562°F	-20~320°C -4~608°F	-20					

DIGITAL THERMOMETERS

MASTECH®

Page	95	96	96	97	97	98	98	99	99	100	
Model	MS6508	MS6500	MS6501	MS6511	MS6512	MS6513	MS6513A	MS6514	MS6514A	MS6503	MS6505
Certificate	CE	CE	CE								
Thermocouple Type				K, J, T, E	K, J, T, E	K, J, T, E, R, S, N	K, J, T, E, R, S, N	K, J, T, E, R, S, N	K, J, T, E, R, S, N		
Temperature	-20~60°C -4~140°F	-50~750°C -58~1382°F	-50~150°C -58~302°F	-50~750°C -58~1382°F	-50~150°C -58~302°F	-50~750°C -58~1382°F	-50~150°C -58~302°F	-50~150°C -58~302°F	-20~60°C -4~140°F	-20~60°C -4~140°F	
Injection Method				Single	Dual	Single	Single	Dual	Dual		
Channel				TCTYPE	T1/T2/T1-T2	TCTYPE	TCTYPE	T1/T2/T1-T2	T1/T2/T1-T2	T1/T2	
SD Card						4G-32G		4G-32G			
Relative Humidity	0~100% RH							0~100% RH			
Update Rate	400ms										
Colck										●	
Datalogger	100 groups				1000 groups		1000 groups				
MAX/MIN/AVG	MAX/MIN				●	●	●	●	MAX/MIN	MAX/MIN	
Data Logging										●	
Data Hold	●	●	●	●	●	●	●	●	●	●	
Backlight	●							●	●	●	
Interface					USB	USB	USB	USB	RS 232	RS 232	

CIRCUIT TESTERS

MASTECH®

Page	101	102	102	103	104
Model	MS6860	MS102	MS112	MS5902	MS5905
Certificate	CE	ETL	ETL	CE	CE
Safety Rating	CAT.II 600V CAT.II 125V CAT.II 125V				
AC Voltage	110V 220V 230V	125V	125V	110V 125V 220V 230V	125V 220V 230V
Frequency	400Hz	400Hz	190V	45~65Hz	45~65Hz
with 3 Test Leads		●			
Continuity Buzzer			●	●	●
CFCI			●	●	
NCV				●	
Work Light				●	
Buzzer and LED Instructions	●	●	●	●	●

OTHER TESTING INSTRUMENTS

MASTECH®

Page	105	105	106	106	107	108
Model	MS5900	MS5901	MS5908A	MS5908C	MS5910	MS7103
Certificate	CE / ETL	CE / ETL	CE / ETL	CE / ETL	CE	ETL
Safety Rating	CAT.III 600V CAT.III 600V	CAT.III 600V CAT.III 600V	CAT.III 300V CAT.III 300V	CAT.III 300V CAT.III 300V	CAT.III 300V CAT.III 300V	CAT.III 300V CAT.III 300V
AC Voltage	400V	400V	190V	375V	99.9V	115V
Frequency	400Hz	400Hz	45~65Hz	45~65Hz	45~65Hz	60Hz
with 3 Test Leads		●				
Continuity Buzzer			●	●	●	
CFCI			●	●		
NCV				●		
Work Light				●		
RCD Test					●	
Output Power						100~200W
Interface				USB	USB	

PROCESS CALIBRATORS

MASTECH®

Page	109	110	111
Model	MS7221	MS7220	MS7212
Certificate	CE		
Safety Rating			CAT II 600V
Auto Ranging			●
DC Voltage	100mV, 10V	-10~75mV	300V
AC Voltage			300V
DC Current	0~24mA		400mA
AC Current			400mA
Resistance			400KΩ
Frequency			30kHz
Thermocouple Type			K, J, T, E, R, S, B, N
Temperature			-250~1800°C -418~3272°F
Data Hold			●
Backlight			●
MAX / MIN / AVG			●
Interface			USB/RS232

DIGITAL LCR METERS

MASTECH®

Page	112	112	113	113	114
Model	MS8910	MS8910A	MS6013	MY6243	MS5308
Certificate	CE	CE	CE	CE	CE
Autoranging	●	●			
Auto Power Off	●	●			
Resistance	30Ω	R 20MΩ DCR 20MΩ			200MΩ
Capacitance	30mF	30mF	20mF	200pF	0.01pF~20mF
Frequency					
Inductance		L 200H C 6mF	2H	0.001μF ~2000H	
Diode	●	●			
Continuity Buzzer	●	●			
Zero Adjustment			●		
LCR & DCR					●
Data Hold	●	●	●	●	
Backlight		●			●
Relative Measurement					●
Interface					RS232

ELECTRICAL TESTERS

MASTECH®

Page	115	115	116	116	116	117	118	118	119	119
Model	MS8900A	MS8900N	MS8902A	MS8902B	MS8902M	MS8904A	MS8907	MS8907H	MS8922A	MS8922H
Certificate	CE / ETL	CE	ETL							
Safety Rating										

WIRE TESTERS

CAT III

Page	120	120	121	122	123-124
Model	MS6810	MS6811	MS6812	MS6813	MS6818
Certificate	CE	CE	CE	CE	CE
Safety Rating					CAT III 300V
Auto Ranging					●
DC Voltage					12~400V
AC Voltage					12~400V
Frequency		300kHz	300kHz	125kHz	
Coaxial Cable (BNC)	●		●		
Low Battery Indicator		●			
Sensitivity		Adjustable	Adjustable	Adjustable	
Test Item	Network Cable	Network Cable	Telephone wire	Network Cable	Coaxial Cable
Worklight					●
Backlight					●
Sound & Light Instructions			●	●	●

DIGITAL LIGHT METERS

MASTECH®

Page	125	126	126
Model	MS6610	MS6612	MS6612T
Certificate		CE	CE
Autorangeing		●	●
Auto Power Off		●	●
Display Counts	2000	2000	2000
Range	50000Lux	200000Lux 20000FC	200000Lux 20000FC 999900CD
Unit Selection	Lux	Lux/FC	Lux/FC/CD
Relative		●	●
Peak		●	●
MAX/MIN		●	●
Data Hold	●	●	●
Back Light		●	●
Bar Graph		●	●
Light Source Default Values			●

ULTRASONIC DISTANCE METER

MASTECH®

Page	130
Model	MS6450
Certificate	CE / ETL
Distance	0.6~15m / 2~50"
Accuracy	±(5% ±1)
Unit	meter feet
Area	●
Volume	●
Back Light	●
MEM Input	●
MEM Recall	●

MOISTURE TESTERS

MASTECH®

Page	131	131
Model	MS6900	MS6900A
Certificate	CE	CE
Range	Wood, Brick, Plaster...	Wood, Brick, Plaster...
Testing Depth	0~50mm	0~50mm
Object Moisture	0~90%	0~90%
Ambient TEMP	-10~50°C / 14~122°F	-10~50°C / 14~122°F
Sampling Rate	Moisture & Humiture	Moisture & Humiture
MAX / MIN	●	●
Unit Selection	%, WB, TD, °C, °F, %RH	%, WB, TD, °C, °F, %RH
Auxiliary		Verification Test Points
Data Hold	●	●
Back Light	●	●

COMBUSTIBLE GAS DETECTOR

MASTECH®

Page	132
Model	MS6310
Certificate	CE
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 minutes in Clean air
Gas Detected	Natural gas, Methane, Ethane, Propane.....

DIGITAL TACHOMETERS

MASTECH®

Page	127	127
Model	MS6208A	MS6208B
Certificate	CE	CE
Contact Measurement	50~19999 RPM	
Non-contact measurement	50~99999 RPM	
Auto Power Off	●	
Data Hold	●	
Back Light	●	
MAX/MIN/AVG	●	
Measuring Distance		50~250mm
m/min m/sec ft/min ft/sec in/min unit selection	●	
Data Logging	100 groups	100 groups

DIGITAL ANEMOMETERS

MASTECH®

Page	128	128
Model	MS6252A	MS6252B
Certificate	CE	CE
m/s (meter per second)	0.80~40.00 m/s	0.80~40.00 m/s
km/h (kilometer per hour)	1.40~144.00 km/h	1.40~144.00 km/h
ft/s (feet per second)	1.30~131.20 ft/s	1.30~131.20 ft/s
Knots (nautical miles per hour)	0.80~77.70 knots	0.80~77.70 knots
mile/h (mile per hour)	0.90~90.00 mil/h	0.90~90.00 mil/h
ft/m (feet per minute)	78~7874 ft/m	78~7874 ft/m
Temperature		-20~60°C
Relative Humidity		20~80%
Ambient		●
Dew Point		●
Wet Bulb		●

LASER DISTANCE METERS

MASTECH®

Page	129	129	129	129
Model	MS6414	MS6416	MS6418	MS64100
Certificate	CE	CE	CE	CE
Auto Power Off	150S	150S	150S	150S
Distance	0.05~40m 2~131"	0.05~60m 2~197"	0.05~80m 2~263"	0.05~100m 2~329"
Accuracy	±1.5mm ± 0.06"	±1.5mm ± 0.06"	±1.5mm ± 0.06"	±1.5mm ± 0.06"
Area & Volume	●	●	●	●
Unit	meter	meter	meter	meter
	inch	inch	inch	inch
	feet	feet	feet	feet
Data Logging	99 groups	99 groups	99 groups	99 groups
Back Light	●	●	●	●
Foot Level	●	●	●	●
Laser Target Pointer	●	●	●	●

DIGITAL SOUND LEVEL METERS

MASTECH®

Page	133	133	134	134
Model	MS6700	MS6701	MS6702	MS6708
Certificate	CE	CE	CE	CE
Display	2000	2000	2000	2000
Auto Ranging	●	●	●	●
Auto Power Off	●	●	●	●
Sound Level	30~130dB	30~130dB	30~130dB	30~130dB
Dynamic	50dB	50dB	50dB	
Temperature			-20~60°C	
Relative Humidity			10~90%RH	
Frequency	30Hz~8kHz	30Hz~8kHz	30Hz~8kHz	30Hz~8kHz
Data Logging	16000	16000	16000	
Wind Speed			0.5~30 m/s 1.8~108 km/h 96~5913 FPM 0.9~58.3 knots	
Data Hold			●	
Data and Time	●	●	●	
°C/°F Selection			●	
AC Adapter	●	●	●	
Back Light	●	●	●	●
MAX	●	●	●	●
AC/DC Signal Output	●	●	●	

ADVANCED EARTH RESISTANCE TESTER

MS2306 / MS2307 / MS2308

EMC
LVD

MS2308**RESISTANCE**
30/150/300kΩ**VOLTAGE**
AC 20V/48V3 Pole 4 Pole
 Ω R~2 Pole

RK Hz MEM

Apo AVG

USB



ADVANCED EARTH RESISTANCE TESTER

MS2306 / MS2307 / MS2308

EMC
LVD

Specifications

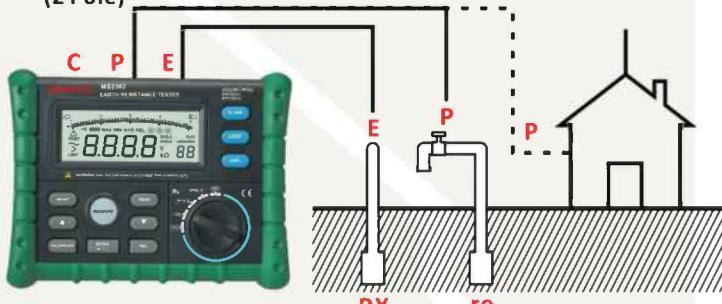
Specifications	Range	MS2306	MS2307	MS2308
3 Pole & 4 Pole Earthing-Resistance Test	Test Voltage: AC20/48V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Earthing-Resistance Test	● 94Hz/128Hz 0.1Ω~20kΩ	● 0.1Ω~30kΩ	● 0.02Ω~300kΩ
Selective mode (3 pole+/4 pole+)	Test Voltage: AC20V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Earthing-Resistance Test	● 0.1Ω~10kΩ	● 0.02Ω~20kΩ	● 0.02Ω~20kΩ
Non-auxiliary-polar mode ()	Test Voltage: AC48V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Earthing-Resistance Test	● 0.1Ω~150Ω	● 0.02Ω~150Ω	● 0.02Ω~150Ω
2 Pole R~	Test Voltage: AC20V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Earthing-Resistance Test	● 94Hz/128Hz 0.1Ω~20kΩ	● 0.1Ω~30kΩ	● 0.02Ω~300kΩ
2/4 Pole R ==	Test Voltage: AC20V Earthing-Resistance Test	● 0.1Ω~3kΩ	● 0.02Ω~3kΩ	● 0.02Ω~3kΩ
Interfering Voltage/ Current/Frequency	Interfering Voltage: 1~5V DC/AC Interfering Frequency: 16Hz~400Hz Interfering Current: 20mA~2A	● ● ●	● ● ●	● ● ●
Soil Resistivity ρ	Test Voltage: AC20/48V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Range: 0.02Ω·m~1000kΩ·m	● 94Hz/128Hz ●	● ● ●	● ● ●
RK (Wire Compensation)	Test Voltage: AC20/48V Test Frequency: 94Hz/105Hz/111Hz/128Hz/AFC Range:	● 94Hz/128Hz 0.1Ω~30Ω	● 0.1Ω~30Ω	● 0.02Ω~30Ω
Short Circuit Current			≤100mA	≤100mA
Features		≤250mA	≤250mA	≤250mA
Display	Digital/analog dual display; LCD with backlight	9999	9999	9999
Apo	Auto Power Off	●	●	●
Clock	To display date and time			
	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	●	●	●
USB	USB2.0 Interface		●	●
General		Approx.2Kg 2096g/4.61lb	Approx.2.5Kg 2096g/4.61lb	Approx.2.5Kg 2096g/4.61lb
Product Weight		6XLX14 alkaline(2#); rated voltage: 6X1.5V Recharge Battery: Ni~MH Recharge Battery, 7.2V Charger: Input voltage: 100V~240V; Frequency: 50Hz~60Hz; Output Voltage: 12VDC 3A		
Power Supply	284mmx230mmx125mm / 11.2" x 9.1" x 4.9"			
Product Size	2.5kg / 5.5lb			
Product Weight	Safety Rating	CE(EMC+LVD) CAT III 300V RoHS		

● Feature Difference

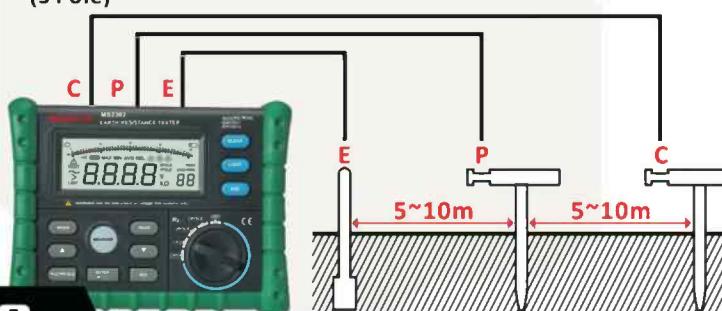
EARTH RESISTANCE TESTER MS2302



◆ Test Connection Diagram
(2 Pole)



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



LOW RESISTANCE TESTER MS2309



EMC
LVD



ETL US
Intertek



MS2309

RESISTANCE
4.0000~400.00Ω

VOLTAGE
0~600V



ACV AUTO Apo

2 wire 4 wire REL

CLOCK USB (1)



Specifications

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	0~200V (50Hz~60Hz)	0.1V	±(1%+5)
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	6x1.5V AA Batteries		
Product Size	330mmx265mmx125mm/13"x10.4"x4.9"		
Product Weight	900g/1.98lb		
Safety Rating	CE(EMC+LVD) ETL CAT III 300V RoHS		

Specifications

Specifications	Range	Accuracy
Measurements	AC 500V, 50/60Hz	±(2.0%+5)
	2-wire	±(0.5%+5)
	4-wire	±(0.1%+5)
Resistance	4.0000Ω/40.000Ω/400.00Ω	●
Resistance MIN Resolution	0.0001Ω	●
Short-Circuit Current	>200mA	●
AC Voltage Range (50Hz ~ 60Hz)	600V (Averages)	●
AC Voltage Measurement Resolution	0.1V	●
Measurement Rate	2 times / sec	●
Real-Time Data Upload	PC, Read the Current Measured Value by Reading the Command	●
Input Protection	Self-Recovery Fuse or Fast-Break Fuse	●

Specifications

Features		
Display	count	40000
Auto Ranging	Auto and Manual	●
APO	Auto Power Off	●
Clock	Meter real-time Display Clock, and with the Measured Value While Storage	●
Recording Data Read	Records can be Read by the PC Data and Measurement Time	●
Data Comparison	Can (Valid Resistance Measurement) Value is set 6 groups	●
Data Hold		●
Backlight		●
Interface	USB	●
LBD	Low Battery Display	●
General		
Power Supply	8x1.5V AA Batteries	
Product Size	330mmx265mmx125mm/13"x10.4"x4.9"	
Product Weight	900g/1.98lb	
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS	

EARTH RESISTANCE CLAMP METER MS2301

MS2301

RESISTANCE 0.01~1200Ω
CURRENT 0.1mA~20A
Ω AUTO
Apo MEM
H (H)

EMC LVD **CE** **ETL US** **CAT III 150V** **RoHS** **PATENTED**

Specifications **MS2301**

Specifications	Range	Resolution	Accuracy
Measuring Resistance	0.01 Ω~0.999Ω	0.001 Ω	±(1.5%+0.01)
	1 Ω~9.99Ω	0.01 Ω	±(1.5%+0.3)
	10 Ω~99.9Ω	0.1 Ω	±(3.0%+0.3)
	100Ω~199.9Ω	1 Ω	±(5.0%+3)
	200Ω~400Ω	5 Ω	±(6.0%+5)
	400Ω~600Ω	10 Ω	±(10%+10)
Measuring Current	600Ω~1200Ω	20 Ω	±(20%+20)
	100mA	0.1 mA	±(3.5%+1)
	300mA	0.3 mA	±(3.5%+2)
	1A	0.001 A	±(3.5%+0.03)
	3A	0.003 A	±(3.5%+0.01)
	10A	0.01 A	±(3.5%+0.03)
Features	20A	0.03 A	±(3.5%+0.05)
	Display	counts	9999
	Jaw Opening	45mmx32mm/1.8"×1.3"	●
	Auto Ranging	Auto & Manual	●
	APO	Auto Power Off	●
	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	1x9V ALKALINE Battery		
Product Size	276mmx104mmx54mm/10.8"×4.33"×2.1"		
Product Weight	1050g/2.31lb		
Safety Rating	CE(EMC+LVD) ETL CAT III 150V RoHS		

Testing Transmit Electricity Circuitry

Application of the Telecommunication

Electric Power Maintain of The Factory

Application of Petrochemical System

Testing Earth Resistance of Lighting Rod

Application of FARADAY-GAGE Protect System

EARTH RESISTANCE TESTERS

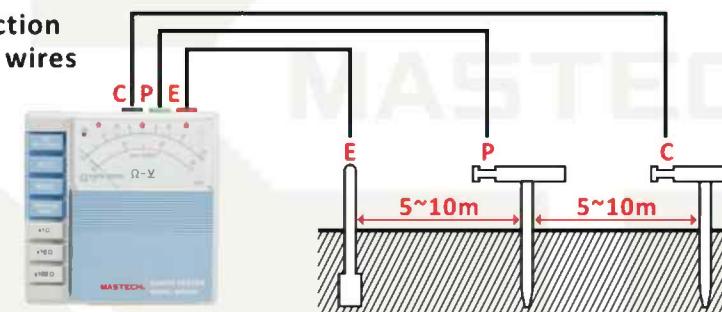
ANALOG EARTH RESISTANCE TESTER MS5209

MS5209

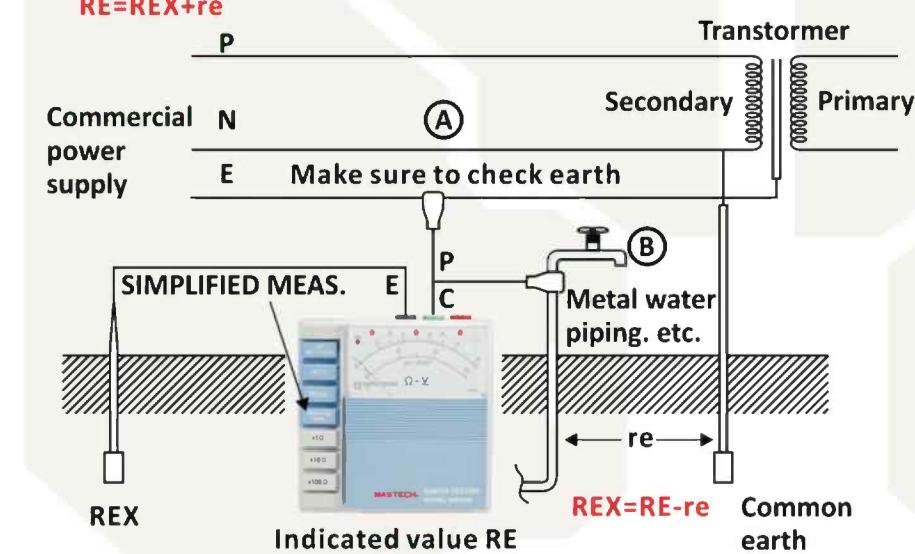
RESISTANCE 1000Ω
VOLTAGE AC 30V
Ω **V**

MASTECH® EARTH TESTER MODEL MS5209

◆ Connection of lead wires



◆ Resistance reading is given as:
 $RE=REX+re$



Specifications

MS5209

Specifications	Range	Accuracy
Earth Ground Resistance	10Ω	±5%
	100Ω	±5%
	1000Ω	±5%
Voltage to Earth	30V(AC)	±5%
Features		
Measurement System	Earth Resistance	●
	By Constant Current Inverter	●
	800Hz approx, 2mA	●
	Earth Voltage	●
	By Rectifier Type	●
	5KΩ/V approx, 40~50Hz	●
Withstand Voltage	1500V AC for one minute between electrical circuit and housing case.	●
Self-Check Facility	Lead wire connection to C and P terminals and proper auxiliary earth resistance can be checked by pressing "BATT.CHECK" button. "OK" lamp is illuminated.	●
General		
Power Supply	8x1.5V AA Batteries	
Product Size	140mmx140mmx90mm/5.5"×5.5"×3.5"	
Product Weight	800g/1.76lb	
Safety Rating	RoHS	

HIGH VOLTAGE INSULATION TESTER MS5215

EMC LVD CAT III 1000V

MS5215

VOLTAGE
DC 250V~5000VRESISTANCE
5TΩ

°C MEM PI

APS USB AVG

CLOCK H

Apo



HIGH VOLTAGE INSULATION TESTER MS5215

EMC LVD CAT III 1000V

Specifications

MS5215

Insulation

Operating Voltage	Measuring Range	Accuracy
250V DC	0.01MΩ ~ 2.5GΩ	±(5%+5)
	2.51GΩ ~ 250GΩ	±(10%+15)
500V DC	0.01MΩ ~ 5.0GΩ	±(5%+5)
	5.01GΩ ~ 500GΩ	±(10%+10)
1000V DC	0.01MΩ ~ 10GΩ	±(5%+5)
	10.1GΩ ~ 500GΩ	±(10%+10)
2.5KV DC	501GΩ ~ 999GΩ	±(15%+10)
	0.01MΩ ~ 25GΩ	±(5%+5)
5KV DC	25.1GΩ ~ 500GΩ	±(10%+10)
	501GΩ ~ 999GΩ	±(15%+30)
10KV DC	1TΩ ~ 2.5TΩ	±(15%+40)
	0.01MΩ ~ 50GΩ	±(5%+5)
20KV DC	50.1GΩ ~ 500GΩ	±(10%+10)
	501GΩ ~ 999GΩ	±(15%+20)
40KV DC	1TΩ ~ 5TΩ	±(20%+40)

Leakage Current

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

Resistance

Range of insulation	Range of humidity	Range of temperature
0Ω ~ 100MΩ	<85% RH	23°C ± 5°C (73°F ± 9°F)
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
-10°C~0°C	±1.5°C
0°C~40°C	±1.0°C
40°C~70°C	±1.5°C

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
Safety Rating	CE(EMC+LVD) CAT III 1000V / CAT IV 600V RoHS

DIGITAL INSULATION TESTER MS5203 / MS5203A



Specifications		MS5203	MS5203A
Features		MS5203	MS5203A
APO	Auto Power Off	●	●
MIN/MAX/AVG		●	●
COMP	Compare function	●	●
TIMER	Timer function	●	●
MEMO	Store function	●	●
DAR/PASS		●	●
Backlight		●	●
REL	Relative Measurement	●	●
Data Hold	LOCK	●	●
LBD	Low Battery Display	●	●
General			
Power Supply	6x1.5V AA Batteries		
Product Size	180mm×140mm×65mm/7.1"×5.5"×2.56"		
Product Weight	900g/1.98lb		
Order Ref. Number	MS5203C15L	MS5203AC15L	
Safety Rating	CAT.III 1000V CAT.IV 600V CE(EMC+LVD)	CAT.III 1000V CAT.IV 600V CE(EMC+LVD)	ETL

Specifications		MS5203	MS5203A
Features		MS5203	MS5203A
APO	Auto Power Off	●	●
LOCK		●	●
MIN/MAX/AVG		●	●
COMP	Compare function	●	●
TIMER	Timer function	●	●
MEMO	Store function	●	●
DAR		●	●
PASS		●	●
Backlight		●	●
REL	Relative Measurement	●	●
Data Hold	LOCK	●	●
LBD	Low Battery Display	●	●
General			
Power Supply	6x1.5V AA Batteries		
Product Size	180mm×140mm×65mm/7.1"×5.5"×2.56"		
Product Weight	900g/1.98lb		
Order Ref. Number	MS5203C15L	MS5203AC15L	
Safety Rating	CAT.III 1000V CAT.IV 600V CE(EMC+LVD)	CAT.III 1000V CAT.IV 600V CE(EMC+LVD)	ETL

DIGITAL INSULATION TESTER MS5205



Specifications		MS5205
Features		MS5205
APO	Auto Power Off	●
LOCK		●
MIN/MAX/AVG		●
COMP	Compare function	●
TIMER	Timer function	●
MEMO	Store function	●
DAR		●
PASS		●
Backlight		●
REL	Relative Measurement	●
Data Hold	LOCK	●
LBD	Low Battery Display	●
General		
Power Supply	8x1.5V AA Batteries	
Product Size	180mm×140mm×65mm/7.1"×5.5"×2.56"	
Product Weight	900g/1.98lb	
Order Ref. Number	MS5205C15L	
Safety Rating	CE(EMC+LVD) CAT III 1000V CAT IV 600V RoHS	

Specifications		MS5205		
Output Voltage	Range	Resolution	Test Current	Accuracy
250V (0~20%)	0~20MΩ	0.01MΩ	1mA @250K	±(3%+5)
	20~50MΩ	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	0.01MΩ	1mA @1000K	±(3%+5)
	200~1000MΩ	0.1MΩ		
	1.00~5.00GΩ	1MΩ		±(3%+5)
	5.00~10.00GΩ	0.01GΩ		±(5%+0.2)
DC Voltage Test	200V/1000V	0.1V/1V		±(0.5%+5)
AC Voltage Test	200V/750V	0.1V/1V	50~60Hz	±(1.5%+5)
Resistance	20Ω/200Ω	0.01Ω		±(1%+5)
	1mΩ	0.1Ω		
	250mA	±0.5%		
Continuity Test	0.01~200.0Ω			±(1%+5)
	1mA			
	250mA	±0.5%		

DIGITAL INSULATION TESTER MS5201

MS5201VOLTAGE
DC 1000V
AC 700VRESISTANCE
200ΩV
ΩH
LOCKCAT.II
1000VCAT.III
600V

RoHS

**Specifications****MS5201**

Specifications	Range	Resolution	Accuracy
AC Voltage	700V	1V	±(1.2%+5)
DC Voltage	1000V	1V	±(0.8%+3)
Resistance	200Ω	0.1Ω	±(1.0%+3)

Insulation Resistance

Range	200MΩ/250V	200MΩ/500V	2000MΩ/1000V
Test Voltage	DC 250V ±10%	DC 500V ±10%	DC 1000V ±10%

Measuring Ranges	0~200MΩ	0~200MΩ	0~2000MΩ
			0MΩ~1000MΩ~2000MΩ

Accuracy	±(3%+5)	±(5%+5)
----------	---------	---------

Output Voltage

Range	200MΩ/250V	200MΩ/500V	2000MΩ/1000V
Output Voltage on Open Circuit	250V ±10%	500V ±10%	1000V ±10%

Minimum Output Voltage	225V at 0.25MΩ	450V at 0.5MΩ	900V at 1MΩ
Test Current (approx.)	1mA at 0.25MΩ	1mA at 0.5MΩ	1mA at 1MΩ

Output Voltage Circuit Current	≤2.5mA		
--------------------------------	--------	--	--

Features

Display	counts	2000
Continuity Buzzer	<50Ω	●
Data Hold		●
LBD	Low Battery Display	●
LOCK	Constant Measuring Lock	●

General

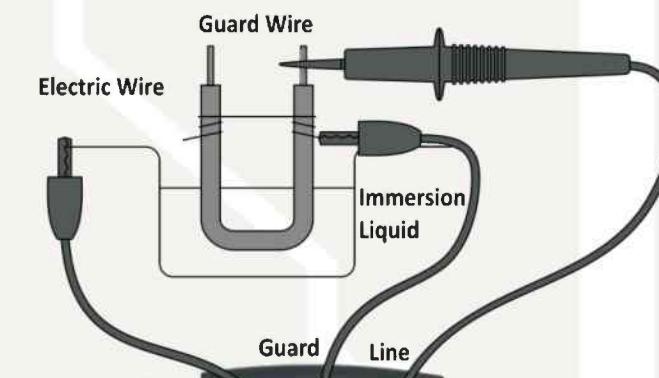
Power Supply	6×1.5V AA Batteries
Product Size	192mm×122mm×55mm/7.48"×4.7"×2.2"
Product Weight	545g/1.3lb
Safety Rating	CAT II 1000V / CAT III 600V RoHS

**INSULATION TESTERS**

HIGH VOLTAGE INSULATION TESTER MS5202

CAT.II
1000V**MS5202**RESISTANCE
0~100GΩVOLTAGE
2500VΩ
V
LOCKCAT.II
1000VCAT.III
600V

RoHS

**USE of Guard Terminal****Specifications****MS5202****Specifications**

Measuring Voltage	DC Voltage
Range	0~2000MΩ/1000~10000MΩ(Auto-range)

Insulated Resistance	0~100MΩ	±3.0% of arc
Accuracy	100~50000MΩ	±2.5% of arc

Output Voltage	100~50000MΩ	±6.0% of arc
Accuracy	50000~100000MΩ	±5.0% of arc

Output Voltage	2500V ±10%	100~100000MΩ
Accuracy	1000MΩ max./1000V	Between the circuit and the case

Voltage-Resistant	5000V AC per minute
-------------------	---------------------

Inner Battery Testing

(AA) 12V inner battery	Checking the inner 12V battery status
------------------------	---------------------------------------

Features

LBD	Low Battery Display
LOCK	Constant Measuring Lock

General

Power Supply	8×1.5V AA Batteries/1×9V 6F22 Battery
Product Size	225mm×138mm×81mm/8.86"×5.3"×3.19"

Product Weight	1200g/2.75lb
----------------	--------------

Safety Rating	CAT II 1000V RoHS
---------------	-------------------

POCKET DIGITAL MULTIMETER

M300 / M300C / M320 / M320C



EMC LVD		CE	cETL US Intertek	CAT II 600V	CAT III 300V	RoHS
Specifications						
M300 M300C						
Specifications						
Specifications Range Accuracy						
DC Voltage 2V ±(0.5%+1)						
20V/200V/300V ±(0.8%+1)						
AC Voltage 200V/300V ±(1.2%+10)						
200V/500V ±(2.0%+2)						
DC Current 200mA ±(2.0%+2)						
Resistance 2KΩ/20KΩ/200KΩ/2MΩ ±(1.0%+2)						
Features						
Display counts 2000 2000						
Diode 2.7V ● ●						
Continuity Buzzer <50Ω ● ●						
LBD Low Battery Display ● ●						
General						
Power Supply A23S/12Vx1						
Product Size 120mm×70mm×18mm/4.7"×2.75"×0.7"						
Product Weight 110g/0.23lb						
Model Number M300 M300C						
Order Ref. Number M300E08 M300C15L M300CC15L						
CAT.II 600V CAT.II 600V CAT.III 300V						
Safety Rating CE(EMC+LVD) CE(EMC+LVD) ETL						



EMC LVD		CE	cETL US Intertek	CAT II 600V	CAT III 300V	RoHS
Specifications						
M320 M320C						
Specifications Range Accuracy						
DC Voltage 400mV/4V ±(0.5%+3)						
40V/300V ±(0.8%+3)						
40V/40V/600V ±(0.8%+3)						
AC Voltage 4V/40V/300V ±(0.8%+4)						
4V/40V/400V/600V ±(0.8%+4)						
DC Current 40mA/400mA ±(2.0%+3)						
AC Current 40mA/400mA ±(3.0%+4)						
Resistance 400Ω/4kΩ/40kΩ/400kΩ/4MΩ ±(1.0%+3)						
40MΩ ±(2.0%+4)						
Capacitance 4nF/40nF/400nF/4μF/40μF/100μF ±(3.0%+3)						
Frequency 0~100kHz ±(0.5%+3)						
Features						
Display counts 4000 4000						
Auto Ranging Auto Power Off ● ●						
Diode 2.7V ● ●						
Continuity Buzzer <50Ω ● ●						
Data Hold						
Backlight						
LBD Low Battery Display ● ●						
General						
Power Supply 357A(LR44)/1.5x2						
Product Size 120mm×70mm×18mm/4.7"×2.75"×0.7"						
Product Weight 110g/0.23lb						
Model Number M320 M320C						
Order Ref. Number M320E08 M320C15L M300CC15L						
CAT.II 600V CAT.II 600V CAT.III 300V						
Safety Rating CE(EMC+LVD) CE(EMC+LVD) ETL						

POCKET DIGITAL MULTIMETER

MS8332C

EMC LVD		CE	cETL US Intertek	CAT III 600V	RoHS
Specifications					
MS8332C					
Specifications Range Accuracy					
DC Voltage 400mV/4V/40V/400V ±(0.5%+3)					
600V ±(0.8%+5)					
AC Voltage 4V/40V/400V ±(0.8%+3)					
600V ±(1.0%+5)					
DC Current 400uA/4mA/40mA/400mA ±(1.8%+5)					
4000uA/40mA/400mA ±(2.0%+8)					
Resistance 400Ω/4kΩ/40kΩ/400kΩ/4MΩ ±(1.0%+3)					
40MΩ ±(2.0%+15)					
Capacitance 4nF/40nF/400nF/4μF/40μF/100μF ±(5.0%+30)					
400nF ±(5.0%+30)					
Frequency 1~5MHz ±(1.5%+15)					
Duty Cycle 0.5%~99.9% ±(2.0%+5)					
Battery Test 1.5V/9V ±(2.0%+20)					
Features					
Display counts 4000					
Auto Ranging Auto Power Off ●					
APO Auto Power Off					
NCV Non-Contact Voltage Detection					
Diode 1.5V					
Continuity Buzzer <50Ω ±(2.0%+20)					
Data Hold					

PEN-TYPE DIGITAL MULTIMETER MS8211 / MS8211D

MS8211



DC 600V
AC 600V

VOLTAGE AC 600V
CURRENT DC 200mA
RESISTANCE Ω
CAPACITANCE C
LOGIC TEST
DIODE TEST
CONTINUITY TEST
MAX HOLD
DATA HOLD
LOW BATTERY DISPLAY
RETRACTABLE TIP

EMC LVD **CE** cETL US Intertek CAT II 600V ROHS

Specifications		MS8211	MS8211D
Specifications	Range	Accuracy	
DC Voltage	200mV/2V/20V/200V/600V	±(0.7%+2)	±(0.7%+2)
AC Voltage	200mV/2V/20V/200V	±(0.8%+3)	±(0.8%+3)
	600V	±(1.0%+3)	±(1.0%+3)
DC Current	20mA/200mA	±(1.5%+3)	
AC Current	20mA/200mA	±(2.0%+3)	
	200Ω	±(1.0%+3)	±(1.0%+3)
Resistance	2KΩ/20KΩ/200KΩ/2MΩ	±(1.0%+1)	±(1.0%+1)
	20MΩ	±(1.0%+5)	±(1.0%+5)
Features			
Display	counts	2000	2000
Auto Ranging	Auto & Manual	●	●
APO	Auto Power Off	●	●
NCV	Non-Contact AC Voltage Detection: >50V AC	●	
Logic Level Test	>3.5V: High Level; <3.5V: Low Level		●
Diode	2.7V	●	●
Continuity Buzzer	<50Ω	●	●
MAX	Maximum Value Hold	●	●
Data Hold		●	●
LBD	Low Battery Display	●	●
Retractable Tip	Retractable Tip for Safe Storage	●	●
General			
Power Supply	2x1.5 AAA Batteries		
Product Size	208mm×38mm×29mm/8.26"×1.5"×1.1"		
Product Weight	110g/0.24lb		
Order Ref. Number	MS8211C15L	MS8211DE08	
	CAT.II 600V	CAT.II 600V	
Safety Rating	CE(EMC+LVD)		
	ETL	ETL	

● Feature Difference

MS8211D



DC 600V
AC 600V

VOLTAGE AC 600V
CURRENT DC 200mA
RESISTANCE Ω
CAPACITANCE C
LOGIC TEST
DIODE TEST
CONTINUITY TEST
MAX HOLD
DATA HOLD
LOW BATTERY DISPLAY
RETRACTABLE TIP

EMC LVD **CE** cETL US Intertek CAT II 600V ROHS

Specifications		MS8211	MS8211D
Specifications	Range	Accuracy	
DC Voltage	200mV/2V/20V/200V/600V	±(0.7%+2)	±(0.7%+2)
AC Voltage	200mV/2V/20V/200V	±(0.8%+3)	±(0.8%+3)
	600V	±(1.0%+3)	±(1.0%+3)
DC Current	20mA/200mA	±(1.5%+3)	
AC Current	20mA/200mA	±(2.0%+3)	
	200Ω	±(1.0%+3)	±(1.0%+3)
Resistance	2KΩ/20KΩ/200KΩ/2MΩ	±(1.0%+1)	±(1.0%+1)
	20MΩ	±(1.0%+5)	±(1.0%+5)
Features			
Display	counts	2000	2000
Auto Ranging	Auto & Manual	●	●
APO	Auto Power Off	●	●
NCV	Non-Contact AC Voltage Detection: >50V AC	●	
Logic Level Test	>3.5V: High Level; <3.5V: Low Level		●
Diode	2.7V	●	●
Continuity Buzzer	<50Ω	●	●
MAX	Maximum Value Hold	●	●
Data Hold		●	●
LBD	Low Battery Display	●	●
Retractable Tip	Retractable Tip for Safe Storage	●	●
General			
Power Supply	2x1.5 AAA Batteries		
Product Size	208mm×38mm×29mm/8.26"×1.5"×1.1"		
Product Weight	110g/0.24lb		
Order Ref. Number	MS8211C15L	MS8211DE08	
	CAT.II 600V	CAT.II 600V	
Safety Rating	CE(EMC+LVD)		
	ETL	ETL	

● Feature Difference

PEN-TYPE DIGITAL MULTIMETER MS8212A / MS8223A

MS8212A



DC 600V
AC 600V

VOLTAGE AC 600V
CURRENT DC 200mA
RESISTANCE Ω
CAPACITANCE C
LOGIC TEST
DIODE TEST
CONTINUITY TEST
MAX HOLD
DATA HOLD
LOW BATTERY DISPLAY
RETRACTABLE TIP

EMC LVD **CE** cETL US Intertek CAT III 600V ROHS

Specifications		MS8212A	MS8223A
Specifications	Range	Accuracy	
DC Voltage	200mV/2V/20V/200V/600V	±(0.7%+2)	±(0.7%+2)
AC Voltage	200mV/2V/20V/200V	±(0.8%+3)	±(0.8%+3)
	600V	±(1.0%+3)	±(1.0%+3)
DC Current	20mA/200mA	±(1.5%+3)	±(1.5%+3)
AC Current	20mA/200mA	±(2.0%+3)	±(2.0%+3)
	200Ω	±(1.0%+3)	±(1.0%+3)
Resistance	2KΩ/20KΩ/200KΩ/2MΩ	±(1.0%+1)	±(1.0%+1)
	20MΩ	±(1.0%+5)	±(1.0%+5)
Features			
Display	counts	2000	2000
Auto Ranging	Auto & Manual	●	●
APO	Auto Power Off	●	●
NCV	Non-Contact AC Voltage Detection: >50V AC	●	●
Logic Level Test	0~1.5V (Green LED on) 1.5V~3.5V (Green & Red LED off) 3.5V~5V (Red LED on)	●	●
Diode	1.5V	●	●
Continuity Buzzer	<50Ω	●	●
MAX	Maximum Value Hold	●	●
Data Hold		●	●
Work Light		●	
LBD	Low Battery Display	●	●
Housing	Double Molding	●	●
General			
Power Supply	2x1.5 AAA Batteries	●	●
Product Size	238x43x29mm / 9.37x1.7x1.1"	●	
	225x52x40mm / 8.86x2.0x1.58"		●
Product Weight	112g/0.28lb	●	
	138g/0.3lb		●
Model Number	MS8212A	MS8223A	
Order Ref. Number	MS8212AE08	MS8212AC15L	MS8223AE08
	CAT III 600V	CAT III 600V	CAT III 600V
Safety Rating	CE(EMC+LVD)		CE(EMC+LVD)
	ETL	ETL	

● Feature Difference

MS8223A



DC 600V
AC 600V

VOLTAGE AC 600V
CURRENT DC 200mA
RESISTANCE Ω
CAPACITANCE C
LOGIC TEST
DIODE TEST
CONTINUITY TEST
MAX HOLD
DATA HOLD
LOW BATTERY DISPLAY
RETRACTABLE TIP

EMC LVD **CE** cETL US Intertek CAT III 600V ROHS

Specifications		MS8212A	MS8223A
Specifications	Range	Accuracy	
DC Voltage	200mV/2V/20V/200V/600V	±(0.7%+2)	±(0.7%+2)
AC Voltage	200mV/2V/20V/200V	±(0.8%+3)	±(0.8%+3)
	600V	±(1.0%+3)	±(1.0%+3)
DC Current	20mA/200mA	±(1.5%+3)	±(1.5%+3)
AC Current	20mA/200mA	±(2.0%+3)	±(2.0%+3)
	200Ω	±(1.0%+3)	±(1.0%+3)
Resistance	2KΩ/20KΩ/200KΩ/2MΩ	±(1.0%+1)	±(1.0%+1)
	20MΩ	±(1.0%+5)	±(1.0%+5)
Features			
Display	counts	2000	2000
Auto Ranging	Auto & Manual	●	●
APO	Auto Power Off	●	●
NCV	Non-Contact AC Voltage Detection: >50V AC	●	●
Logic Level Test	0~1.5V (Green LED on) 1.5V~3.5V (Green & Red LED off) 3.5V~5V (Red LED on)	●	●
Diode	1.5V	●	●
Continuity Buzzer	<50Ω	●	●
MAX	Maximum Value Hold	●	●
Data Hold		●	●
Work Light		●	
LBD	Low Battery Display	●	●
Housing	Double Molding	●	●
General			
Power Supply	2x1.5 AAA Batteries	●	●
Product Size	238x43x29mm / 9.37x1.7x1.1"	●	
	225x52x40mm / 8.86x2.0x1.58"		●
Product Weight	112g/0.28lb	●	
	138g/0.3lb		●
Model Number	MS8212AE08	MS8212AC15L	MS8223AE08
Order Ref. Number	CAT III 600V	CAT III 600V	CAT III 600V
Safety Rating	CE(EMC+LVD)		CE(EMC+LVD)
	ETL	ETL	

● Feature Difference

DIGITAL MULTIMETER

MAS830 / MAS830C / MAS830B / MAS830BC



Specifications

MAS830 MAS830C

Specifications	Range	Accuracy	MAS830	MAS830C
DC Voltage	200mV/2V/20V/200V	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$
	300V			$\pm(0.8\%+5)$
	600V	$\pm(0.8\%+5)$		
AC Voltage	200V/300V		$\pm(1.2\%+10)$	
	200V/600V	$\pm(1.2\%+10)$		
DC Current	20 μ A/200 μ A/2mA/20mA	$\pm(1.0\%+3)$	$\pm(1.0\%+3)$	
	200mA	$\pm(1.5\%+5)$	$\pm(1.5\%+5)$	
	10A	$\pm(3.0\%+10)$	$\pm(3.0\%+10)$	
Resistance	200 Ω	$\pm(0.8\%+5)$	$\pm(0.8\%+5)$	
	2K Ω /20K Ω /200K Ω	$\pm(0.8\%+2)$	$\pm(0.8\%+2)$	
	2M Ω	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$	
Features				
Display	counts	2000	2000	
Diode	2.7V	●	●	
Continuity Buzzer	<70 \pm 30 Ω	●	●	
Data Hold		●	●	
LBD	Low Battery Display	●	●	
General				
Power Supply	1x9V 6F22/NEDA 1604 Battery			
Product Size	145mmx76mmx40mm/5.7" x3" x1.57"			
Product Weight	202g/0.44lb			
Model Number	MAS830	MAS830C		
Order Ref. Number	MAS830S MAS830E08 MAS830C15L MAS830C15L			
Safety Rating	CAT II 600V CAT II 600V CAT III 600V CAT III 300V	CE(EMC+LVD) CE(EMC+LVD)	ETL	CE(EMC+LVD) CE(EMC+LVD)

Specifications

MAS830B MAS830BC

Specifications	Range	Accuracy	MAS830B	MAS830BC
DC Voltage	200mV/2V/20V/200V	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$
	300V			$\pm(0.8\%+5)$
	600V	$\pm(0.8\%+5)$		
AC Voltage	200V/300V		$\pm(1.2\%+10)$	
	200V/600V	$\pm(1.2\%+10)$	$\pm(1.2\%+10)$	
DC Current	20 μ A/200 μ A/2mA/20mA	$\pm(1.0\%+3)$	$\pm(1.0\%+3)$	
	200mA	$\pm(1.5\%+5)$	$\pm(1.5\%+5)$	
	10A	$\pm(3.0\%+10)$	$\pm(3.0\%+10)$	
Resistance	200 Ω	$\pm(0.8\%+5)$	$\pm(0.8\%+5)$	
	2K Ω /20K Ω /200K Ω	$\pm(0.8\%+2)$	$\pm(0.8\%+2)$	
	2M Ω	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$	
Features				
Display	counts	2000	2000	
Diode	2.7V	●	●	
Continuity Buzzer	<70 \pm 30 Ω	●	●	
Data Hold		●	●	
LBD	Low Battery Display	●	●	
General				
Power Supply	1x9V 6F22/NEDA 1604 Battery			
Product Size	145mmx76mmx40mm/5.7" x3" x1.57"			
Product Weight	202g/0.44lb			
Model Number	MAS830B	MAS830BC		
Order Ref. Number	MAS830BS MAS830BE08 MAS830BC15L MAS830BC15L			
Safety Rating	CAT II 600V CAT II 600V CAT III 600V CAT III 300V	CE(EMC+LVD) CE(EMC+LVD)	ETL	CE(EMC+LVD) CE(EMC+LVD)

DIGITAL MULTIMETER

MAS830L / MAS830LC / MAS838 / MAS838C



Specifications

MAS830L MAS830LC

Specifications	Range	Accuracy	MAS830L	MAS830LC
DC Voltage	200mV/2V/20V/200V	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$
	300V			$\pm(0.8\%+5)$
	600V	$\pm(0.8\%+5)$		
AC Voltage	200V/300V		$\pm(1.2\%+10)$	
	200V/600V	$\pm(1.2\%+10)$	$\pm(1.0\%+3)$	
DC Current	20 μ A/200 μ A/2mA/20mA	$\pm(1.0\%+3)$	$\pm(1.0\%+3)$	
	200mA	$\pm(1.5\%+5)$	$\pm(1.5\%+5)$	
	10A	$\pm(3.0\%+10)$	$\pm(3.0\%+10)$	
Resistance	200 Ω	$\pm(0.8\%+5)$	$\pm(0.8\%+5)$	
	2K Ω /20K Ω /200K Ω	$\pm(0.8\%+2)$	$\pm(0.8\%+2)$	
	2M Ω	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$	
Features				
Display	counts	2000	2000	
Diode	2.7V	●	●	
Continuity Buzzer	<70 \pm 30 Ω	●	●	
Data Hold		●	●	
Display Backlight			●	●
LBD	Low Battery Display	●	●	
General				
Power Supply	1x9V 6F22/NEDA 1604 Battery			
Product Size	145mmx76mmx40mm/5.7" x3" x1.57"			
Product Weight	202g/0.44lb			
Model Number	MAS830LS	MAS830LE08 MAS830LC15L MAS830LC15L		
Order Ref. Number	MAS830LS	MAS830LE08 MAS830LC15L MAS830LC15L	CAT II 600V CAT II 600V CAT III 600V CAT III 300V	CE(EMC+LVD) CE(EMC+LVD)
Safety Rating	ETL	CE(EMC+LVD) CE(EMC+LVD)	ETL	CE(EMC+LVD) CE(EMC+LVD)

Specifications

MAS838 MAS838C

Specifications	Range	Accuracy	MAS838	MAS838C
DC Voltage	200mV/2V/20V/200V	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$
	300V			$\pm(0.8\%+5)$
	600V	$\pm(0.8\%+5)$		
AC Voltage	200V/300V		$\pm(1.2\%+10)$	
	200V/600V	$\pm(1.2\%+10)$	$\pm(1.0\%+3)$	
DC Current	20 μ A/200 μ A/2mA/20mA	$\pm(1.0\%+3)$	$\pm(1.0\%+3)$	
	200mA	$\pm(1.5\%+5)$	$\pm(1.5\%+5)$	
	10A	$\pm(3.0\%+10)$	$\pm(3.0\%+10)$	
Resistance	200 Ω	$\pm(0.8\%+5)$	$\pm(0.8\%+5)$	
	2K Ω /20K Ω /200K Ω	$\pm(0.8\%+2)$	$\pm(0.8\%+2)$	
	2M Ω	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$	
Temperature(°C)	-20°C~1000°C	$\pm(2\%+2)$	$\pm(2\%+2)$	
Features				
Display	counts	2000	2000	
Diode	2.7V	●	●	
Continuity Buzzer	<70 \pm 30 Ω	●	●	
Data Hold		●	●	
LBD	Low Battery Display	●	●	
General				
Power Supply	1x9V 6F22/NEDA 1604 Battery			
Product Size	145mmx76mmx40mm/5.7" x3" x1.57"			
Product Weight	202g/0.44lb			
Model Number	MAS838S	MAS838E08 MAS838C15L MAS838C15L		
Order Ref. Number	MAS838S	MAS838E08 MAS838C15L MAS838C15L	CAT II 600V CAT II 600V CAT III 600V CAT III 300V	CE(EMC+LVD) CE(EMC+LVD)
Safety Rating	ETL	CE(EMC+LVD) CE(EMC+LVD)	ETL	CE(EMC+LVD) CE(EMC+LVD)

DIGITAL MULTIMETER

MS8233A / MS8233B / MS8233C

MS8233A

VOLTAGE
DC 600V
AC 600VCURRENT
DC 10A \overline{V} \overline{A} Ω \rightarrow \square H

MAX

EMC
LVDCAT II
600VCAT III
600V

Specifications

MS8233A MS8233B MS8233C

Specifications	Range	Accuracy	MS8233A	MS8233B	MS8233C
DC Voltage	200mV/2V/20V/200V/600V	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$
AC Voltage	200V/600V	$\pm(1.2\%+10)$	$\pm(1.2\%+10)$	$\pm(1.2\%+10)$	$\pm(1.2\%+10)$
DC Current	200μA/2mA/20mA/200mA	$\pm(1.0\%+3)$	$\pm(1.0\%+3)$	$\pm(1.0\%+3)$	$\pm(1.0\%+3)$
Resistance	10A	$\pm(3.0\%+5)$	$\pm(3.0\%+5)$	$\pm(3.0\%+5)$	$\pm(3.0\%+5)$
Temperature	-20°C~1000°C / -4°F~1832°F				$\pm(2\%+2)$

Features

Display	counts	2000	2000	2000
NCV	Non-contact Voltage Detection		●	●
Diode	2.7V	●	●	●
Continuity Buzzer	<50Ω	●	●	●
Data Hold		●	●	●
Display Backlight		●	●	●
LBD	Low Battery Display	●	●	●

General

Power Supply	1x9V/6F22 Battery
Product Size	140mm×67mm×30mm/5.5"×2.6"×1.2"
Product Weight	192g/0.42lb
Model Number	MS8233A MS8233B MS8233C
Order Ref. Number	MS8233AE08 MS8233AC15L MS8233BE08 MS8233BC15L MS8233CE08 MS8233CC15L
Safety Rating	CAT II 600V CAT III 600V CAT II 600V CAT III 600V CAT II 600V CAT III 600V CE(EMC+LVD) CE(EMC+LVD) CE(EMC+LVD) ETL ETL ETL

● Feature Difference



MS8233C

VOLTAGE
DC 600V
AC 600VCURRENT
DC 10A \overline{V} \overline{A} Ω

°F/C NCV

 \rightarrow \square H

MAX



DIGITAL MULTIMETERS

DIGITAL MULTIMETERS

DIGITAL MULTIMETER

MS8233D / MS8233E / MS8233Z

MS8233D

VOLTAGE
DC 600V
AC 600VCURRENT
DC 10A
AC 10A \overline{V} \overline{A} Ω

Hz AUTO Apo

 \rightarrow \square H

MAX

NCV

MAX

EMC
LVDCAT II
600VCAT III
600V

Specifications

MS8233D MS8233E MS8233Z

Specifications	Range	Accuracy	MS8233D	MS8233E	MS8233Z
DC Voltage	200mV/2V/20V/200V/600V	$\pm(0.5\%+3)$			
AC Voltage	200V/600V	$\pm(0.5\%+2)$			
DC Current	600V	$\pm(0.8\%+2)$			
Resistance	400mV/4V/40V/400V/600V				$\pm(0.5\%+2)$
Temperature	2V/20V/200V	$\pm(0.9\%+3)$	$\pm(1.2\%+10)$		
AC Current	4V/40V/400V		$\pm(1.2\%+3)$	$\pm(1.0\%+3)$	
Resistance	600V		$\pm(1.2\%+3)$	$\pm(1.0\%+3)$	
Frequency	200μA/2mA/20mA/200mA	$\pm(1.5\%+3)$	$\pm(1.0\%+3)$		
AC Current	400μA/4mA/40mA/400mA		$\pm(1.5\%+3)$	$\pm(1.0\%+3)$	
Resistance	10A	$\pm(1.5\%+3)$	$\pm(3.0\%+5)$	$\pm(1.0\%+3)$	
Frequency	200μA/2mA/20mA/200mA		$\pm(1.5\%+3)$	$\pm(1.0\%+3)$	
AC Current	400μA/4mA/40mA/400mA		$\pm(1.5\%+3)$	$\pm(1.0\%+3)$	
Resistance	200Ω/2KΩ/20KΩ/200KΩ	$\pm(0.8\%+2)$	$\pm(0.8\%+4)$		
Frequency	2MΩ/20MΩ		$\pm(1.0\%+2)$	$\pm(1.0\%+2)$	
AC Current	4MΩ/40MΩ				$\pm(0.8\%+2)$
Capacitance	4nF/40nF/400nF/4μF/40μF/200μF				$\pm(3.0\%+3)$
Frequency	0.1~10MHz				$\pm(1.5\%+5)$
AC Current	0~20KHz				$\pm(1.5\%+5)$
Temperature	1%~99%				$\pm(3.0\%+3)$
AC Current	-20°C~1000°C				$\pm(3.0\%+3)$
Temperature	0°F~50°F				$\pm(5.0\%+4)$
AC Current	50°F~750°F				$\pm(1.5\%+3)$
Temperature	750°F~1832°F				$\pm(3.0\%+3)$
AC Current	-4°F~1832°F				$\pm(3.0\%+6)$

● Feature Difference



MS8233E

VOLTAGE
DC 600V
AC 600VCURRENT
DC 10A
AC 10A \overline{V} \overline{A} Ω

°F/C AUTO Apo

 \rightarrow \square H

MAX



DIGITAL MULTIMETER

MS8238 / MS8238A / MS8238G

MS8238

VOLTAGE
DC 600V
AC 600VCURRENT
DC 10A \overline{V} \overline{A} Ω
 \rightarrow Diode H
TEST $[+ -]$ EMC
LVD Intertek
CAT II
600V
CAT III
300V
RoHSCAT III
600V
IntertekCAT III
300V
RoHS

MS8238A

VOLTAGE
DC 600V
AC 600VCURRENT
DC 10A
AC 10A \overline{V} \overline{A} Ω
 \rightarrow Diode H
NCV TEST $[+ -]$ 

Specifications

Specifications	Range	Accuracy	MS8238	MS8238A	MS8238G
DC Voltage	200mV/2V/20V/200V 600V	±(0.5%+2) ±(0.8%+5)	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)
AC Voltage	200V/600V	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)
DC Current	2mA/20mA/200mA 200mA 10A	±(0.8%+3) ±(1.2%+3)	±(0.8%+3)	±(1.2%+3)	±(1.2%+3)
AC Current	200mA 10A	±(1.0%+3) ±(1.5%+3)	±(1.0%+3)	±(1.5%+3)	±(1.5%+3)
Resistance	200Ω/2KΩ/20KΩ/200KΩ/2MΩ	±(0.8%+4)	±(0.8%+4)	±(0.8%+4)	±(0.8%+4)
Battery Test	12V/9V 1.5V	±(0.8%+7) ±(3.0%+5)	±(0.8%+7)	±(0.8%+7)	±(3.0%+5)
Features					
Display	counts	2000	2000	2000	2000
Diode	2.9V	●	●	●	●
Continuity Buzzer	<40Ω	●	●	●	●
Data Hold		●	●	●	●
NCV	Non-contact Voltage Detection		●	●	●
LBD	Low Battery Display	●	●	●	●
General					
Power Supply	1x9V 6F22/NEDA 1604 Battery				
Product Size	148mmx73.5mmx50mm/5.8" x 2.9" x 1.96"				
Product Weight	232g/0.51lb				
Model Number	MS8238	MS8238A	MS8238G		
Order Ref. Number	MS8238E08 CAT II 600V	MS8238LC15L CAT III 300V	MS8238AE08 CAT II 600V	MS8238ALC15L CAT III 300V	MS8238GE08 CAT II 600V
Safety Rating	CE(EMC)		CE(EMC)		CE(EMC)
	ETL	ETL	ETL	ETL	ETL

● Feature Difference



MS8238G

VOLTAGE
DC 600V
AC 600VCURRENT
DC 10A \overline{V} \overline{A} Ω
 \rightarrow Diode H
NCV TEST $[+ -]$ 

NEW

DIGITAL MULTIMETER

MS8238B / MS8238C

EMC
LVDCE Intertek
CAT III
600V

RoHS

Specifications

Specifications	Range	Accuracy	MS8238B
DC Voltage	200mV/2V/20V/200V 600V	±(0.5%+2) ±(0.8%+5)	±(0.5%+2)
AC Voltage	200V/600V	±(1.0%+5)	±(1.0%+5)
DC Current	200mA 10A	±(0.8%+3)	±(1.2%+3)
AC Current	200mA 10A	±(1.0%+3)	±(1.5%+3)
Resistance	200Ω/2KΩ/20KΩ/200KΩ/2MΩ	±(0.8%+4)	±(0.8%+4)
Battery Test	12V/9V 1.5V	±(0.8%+7) ±(3.0%+5)	±(0.8%+7)
Features			
Display	counts	2000	
Diode	2.7V	●	
Continuity Buzzer	<50Ω	●	
Data Hold		●	
NCV	Non-contact Voltage Detection	●	
LBD	Low Battery Display	●	
General			
Power Supply	1x9V 6F22/NEDA 1604 Battery		
Product Size	148mmx73.5mmx50mm/5.8" x 2.9" x 1.96"		
Product Weight	232g/0.51lb		
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS		



MS8238B
VOLTAGE DC 600V AC 600V
CURRENT DC 10A AC 10A
 \overline{V} \overline{A} Ω
 \rightarrow Diode H
NCV TEST $[+ -]$

Specifications

Specifications	Range	Accuracy	MS8238C
DC Voltage	200mV/2V/20V/200V	±(0.5%+3)	
AC Voltage	2V/20V/200V 600V	±(0.5%+3)	
DC Current	200μA/2mA/20mA/200mA 10A	±(0.8%+3)	±(1.0%+10)
AC Current	200μA/2mA/20mA 200mA	±(1.0%+3)	±(1.2%+3)
Resistance	200Ω/2KΩ/20KΩ/200KΩ/2MΩ	±(0.8%+4)	±(1.5%+10)
Temperature	-20°C~750°C/-4°F~1382°F	±(1.0%+2)	
Battery Test	12V/9V 1.5V	±(0.8%+7) ±(3.0%+5)	±(0.8%+7)
Features			
Display	counts	2000	
Autoranging	Auto & Manual	●	
APO	Auto Power Off	●	
Diode	2.7V	●	
Continuity Buzzer	<30Ω	●	
Data Hold		●	
NCV	Non-contact Voltage Detection	●	
LBD	Low Battery Display	●	
General			
Power Supply	1x9V 6F22 Battery		
Product Size	148mmx73.5mmx50mm/5.8" x 2.9" x 1.96"		
Product Weight	232g/0.51lb		
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS		



MS8238C
VOLTAGE DC 600V AC 600V
CURRENT DC 10A AC 10A
 \overline{V} \overline{A} Ω
 \rightarrow Diode H
APO NCV TEST $[+ -]$
°F/°C

DIGITAL MULTIMETER MS8238D

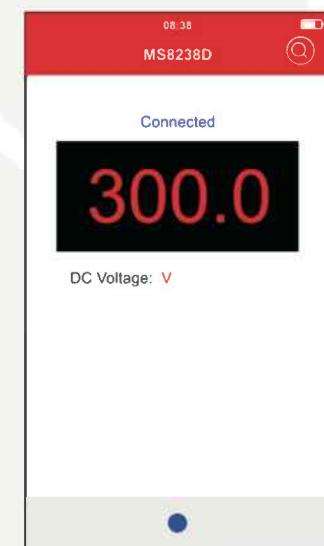
VOLTAGE	DC 1000V AC 750V
CURRENT	DC 10A AC 10A
TEST	~V ~A Ω
TEMP	°F/C TEST AUTO
Apo	TRMS NCV
BT	OFF
H	+



NEW



Blue Tooth



Specifications MS8238D

Specifications	Range	Accuracy
DC Voltage	400mV/4V/40V/400V 1000V	±(0.5%+2) ±(0.8%+5)
AC Voltage	4V/40V/400V/750V	±(1.0%+10)
DC Current	400uA/4000uA/40mA/400mA 10A	±(1.0%+5) ±(2.0%+8)
AC Current	400uA/4000uA/40mA/400mA 10A	±(0.8%+5) ±(2.0%+8)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	±(0.8%+3)
Temperature	-20°C~1000°C -4°F~1832°F	±(2.0%+2) ±(2.0%+4)
Battery Test	1.5V 9V	±(0.8%+5) ±(0.8%+7)
Features		
Display	counts	4000
Autoranging	Auto & Manual	●
APO	Auto Power Off	●
True RMS	True Root Mean Square Measurement	●
NCV	Non-contact Voltage Detection	●
Blue Tooth	Android / IOS	●
Diode	2.7V	●
Continuity Buzzer	<50Ω	●
Data Hold		●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22/NEDA 1604 Battery	
Product Size	148mm×73.5mm×50mm/5.8"×2.9"×1.96"	
Product Weight	232g/0.51lb	
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS	



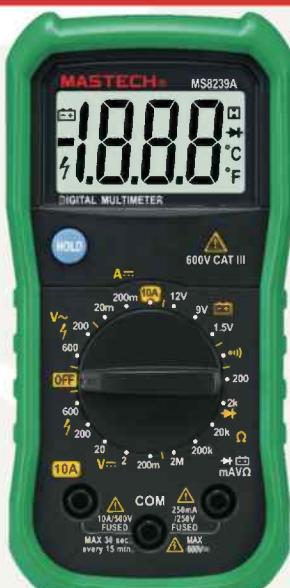
DIGITAL MULTIMETER MS8239A / MS8239B / MS8239C



Specifications MS8239A MS8239B MS8239C

Specifications	Range	Accuracy		
DC Voltage	200mV/2V/20V/200V 600V	±(0.5%+3) ±(0.8%+3)		
AC Voltage	400mV/4V/40V/400V/600V	±(0.5%+3)		
DC Current	200V/600V 200mA/200mA 200mA	±(1.2%+10) ±(1.2%+10) ±(1.2%+5)		
AC Current	20mA/200mA 200mA 200mA	±(1.0%+5) ±(1.0%+5) ±(1.0%+5)		
Resistance	400Ω/2KΩ/20KΩ/200KΩ/2MΩ 400Ω/4KΩ/40KΩ/400KΩ/4MΩ/40MΩ	±(0.8%+5) ±(0.8%+5)		
Temperature	-20°C~1000°C -4°F~1832°F	±(2.0%+10) ±(2.0%+10)		
Battery Tester	1.5V/9V/12V	±(1.2%+5) ±(2.5%+10) ±(2.5%+10)		
Features				
Display	counts	2000 2000 4000		
Autoranging	Auto & Manual			
APO	Auto Power Off	●		
Frequency	0~10MHz	●		
Duty Cycle	1%~99%	●		
Temperature	-20°C~1000°C/-4°F~1832°F	●		
Battery Tester	1.5V/9V/12V	● ●		
General				
Power Supply	2x1.5V AAA Batteries			
Product Size	150mm×74mm×41mm/5.9"×2.9"×1.6"			
Product Weight	202g/0.44lb			
Model Number	MS8239A	MS8239B	MS8239C	
Order Ref. Number	MS8239AC15L	MS8239BC15L	MS8239CE08	MS8239C15L
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V
	CE(EMC+LVD)	CE(EMC+LVD)		CE(EMC+LVD)
			ETL	

● Feature Difference



MS8239A

VOLTAGE	DC 600V AC 600V
CURRENT	DC 10A AC 10A
TEST	~V ~A Ω
BT	OFF
H	+



MS8239B

VOLTAGE	DC 600V AC 600V
CURRENT	DC 10A AC 10A
TEST	~V ~A Ω
BT	OFF
H	+



MS8239C

VOLTAGE	DC 600V AC 600V
CURRENT	DC 10A AC 10A
TEST	~V ~A Ω
BT	OFF
H	+

DIGITAL MULTIMETER

M58321A / M58321B / M58321C



Specifications		Range	Accuracy		
DC Voltage	200mV/2V/20V/200V	±(0.7%+1)	±(0.7%+1)	±(0.7%+1)	±(0.7%+1)
	600V	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
AC Voltage	2V/20V/200V	±(0.8%+3)	±(0.8%+3)		
	200V				±(1.2%+10)
DC Current	200µA/2mA/20mA	±(1.0%+3)			±(1.0%+3)
	2mA/20mA		±(1.0%+3)		
	200mA	±(1.5%+1)			±(1.5%+1)
	10A	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)
AC Current	2mA/20mA	±(1.2%+5)			
	20mA		±(1.2%+5)		
	200mA	±(1.8%+5)			
	10A	±(3.0%+10)	±(3.0%+10)		
Resistance	200Ω	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
	2KΩ/20KΩ/200KΩ/2MΩ	±(1.0%+1)	±(1.0%+1)	±(1.0%+1)	±(1.0%+1)
	20MΩ	±(1.0%+5)	±(1.0%+5)		
Temperature	°C	-20°C~0°C		±(10%+2)	
		1°C~400°C		±(1.0%+3)	
		401°C~1000°C		±2.0%	
	°F	-4°F~32°F		±(10%+2)	
		32°F~752°F		±(1.0%+3)	
		752°F~1832°F		±2.0%	
Battery Tester	1.5V/9V/12V			●	
Features					
Display	counts		2000	2000	2000
Manual Range		●	●	●	●
APO	Auto Power Off	●	●	●	●
Data Hold		●	●	●	●
Diode	2.8V	●	●	●	●
Continuity Buzzer	<50Ω	●	●	●	●
LBD	Low Battery Display	●	●	●	●
Transistor hFE	0~1000	●			●
General					
Power Supply	1x9V/6F22 Battery				
Product Size	158mm×74mm×36mm/5.8"×2.87"×1.5"				
Product Weight	220g/0.48lb				
Model Number	MS8321A		MS8321B		MS8321C
Order Ref. Number	MS8321A E08	MS8321AC15U	MS8321B E08	MS8321B C15L	MS8321C E08
Safety Rating	CAT.III 600V	CAT.III 600V	CAT.III 600V	CAT.III 600V	CAT.III 600V
	CE(EMC+LVD)		CE(EMC+LVD)		CE(EMC+LVD)
	ETL		ETL		ETL

● Feature Difference

DIGITAL MULTIMETER

M58321D / M58321E / M58321F



Specifications		Range	MS8321D	MS8321E	MS8321F
DC Voltage	200mV/2V/20V/200V	±(0.7%+1)	±(0.7%+1)	±(0.7%+1)	±(0.7%+1)
	1000V	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
AC Voltage	2V/20V/200V	±(0.8%+3)	±(0.8%+3)		
	200V				±(1.2%+10)
DC Current	200μA/2mA/20mA	±(1.0%+3)			±(1.0%+3)
	2mA/20mA		±(1.0%+3)		
	200mA	±(1.5%+1)			±(1.5%+1)
	10A	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)
AC Current	2mA/20mA	±(1.2%+5)			
	20mA		±(1.2%+5)		
	200mA	±(1.8%+5)			
	10A	±(3.0%+10)			
Resistance	200Ω	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
	2KΩ/20KΩ/200KΩ/2MΩ	±(1.0%+1)	±(1.0%+1)	±(1.0%+1)	±(1.0%+1)
	20MΩ	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)
Temperature	°C	-20°C~0°C		±(10%+2)	
		1°C~400°C		±(1.0%+3)	
		401°C~1000°C		±2.0%	
	°F	-4°F~32°F		±(10%+2)	
		32°F~752°F		±(1.0%+3)	
		752°F~1832°F		±2.0%	
Battery Tester	1.5V/9V/12V			●	
Features					
Display	counts		2000	2000	2000
Manual Range			●	●	●
APO	Auto Power Off		●	●	●
Data Hold			●	●	●
Diode	2.8V		●	●	●
Continuity Buzzer	<50Ω		●	●	●
LBD	Low Battery Display		●	●	●
Transistor hFE	0~1000		●		●
ECBE	NPN, PNP		●		●
General					
Power Supply	1x9V/6F22 Battery				
Product Size	158mm×74mm×36mm/5.8"×2.87"×1.5"				
Product Weight	220g/0.48lb				
Safety Rating	CAT.III 600V RoHS				

● Feature Differences

DIGITAL MULTIMETER MS8301A / MS8301B



EMC LVD CE cETL US Intertek CAT III 600V RoHS PATENTED

Specifications

Specifications	Range	Accuracy
DC Voltage	200mV/2V/20V/200V	±(0.5%+3)
AC Voltage	400mV/4V/40V/400V	±(0.5%+3)
600V	±(0.8%+5)	±(0.8%+3)
200V	±(1.0%+10)	
AC Voltage	4V/40V/400V	±(0.8%+5)
600V	±(1.2%+10)	±(1.0%+5)
2mA	±(1.0%+3)	
DC Current	20mA	±(1.0%+5)
200mA	±(1.5%+2)	
400µA/4000µA/40mA/400mA	±(1.0%+5)	
10A	±(3.0%+10)	±(2.0%+10)
AC Current	400µA/4000µA/40mA/400mA	±(1.2%+5)
10A	±(2.5%+10)	
200Ω	±(1.2%+5)	
Resistance	2KΩ/20KΩ/200KΩ	±(0.8%+2)
2MΩ	±(1.0%+5)	
400Ω/4KΩ/40KΩ/400KΩ/4MΩ/40MΩ	±(0.8%+5)	
Capacitance	5nF/50nF/500nF/5µF/50µF/100µF	±(3.0%+5)
Frequency	5Hz/50Hz/500Hz/5kHz/50kHz/100kHz	±(1.0%+5)
Duty Cycle	0.1%~99.9%	±3.0%
Temperature	-20°C~1000°C/-4°F~1832°F	±(3.0%+3)
Battery Test	1.5V/9V	±(0.8%+5)
Features		
Display	counts	2000 4000
Auto Ranging	Auto & Manual	●
APO	Auto Power Off	●
NCV	Non-contact Voltage Detection	●
Diode	2.7V	● ●
Continuity Buzzer	<50Ω	● ●
Data Hold		● ●
Backlight		●
Worklight		●
LBD	Low Battery Display	● ●
General		
Power Supply	2x1.5V AAA Batteries	
Product Size	150mm×74mm×48mm/5.9"×2.9"×1.7"	
Product Weight	220g/0.48lb	
Safety Rating	CE ETL CAT III 600V RoHS	

● Feature Difference



DIGITAL MULTIMETERS

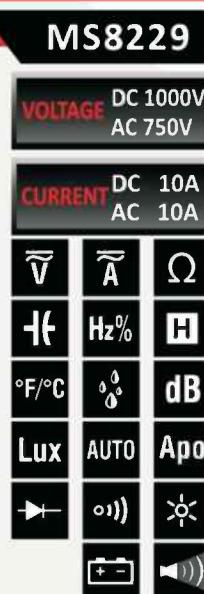
DIGITAL MULTIMETER MS8229 / MS8229N / MS8229G

EMC LVD CE cETL US Intertek CAT.II 1000V CAT.III 600V RoHS

Specifications

Specifications	Range	Accuracy
DC Voltage	400mV/4V/40V/500V	±(0.7%+2)
AC Voltage	400mV/4V/40V/1000V	±(0.7%+2)
500V	±(0.8%+3)	±(0.8%+3)
750V	±(1.0%+3)	±(1.0%+3)
DC Current	400µA/4000µA/40mA/400mA	±(1.2%+3)
4A/10A	±(2.0%+10)	±(2.0%+10)
AC Current	400µA/4000µA/40mA/400mA	±(1.5%+5)
4A/10A	±(3.0%+10)	±(3.0%+10)
Resistance	4000Ω/40KΩ/400KΩ/4MΩ	±(1.2%+2)
40MΩ	±(2.0%+5)	±(2.0%+5)
Capacitance	40nF/400nF/4µF/40µF/100µF	±(3.0%+3)
9.999Hz	±(2.0%+5)	±(2.0%+5)
99.99Hz/999.9Hz/9.999kHz	±(1.5%+5)	±(1.5%+5)
99.99kHz/199.9kHz	±(2.0%+5)	±(2.0%+5)
Frequency	>200kHz	Take in only as reference
Temperature	0.1%~99.9%	Take in only as reference
Duty Cycle	-20°C~0°C	Take in only as reference
Environment T	1°C~400°C	Take in only as reference
Relative Humidity	20%~95%	Take in only as reference
Sound Level	35dB~100dB	±3.5%
Luminosity	4000Lux/40000Lux	±(5.0%+10)
Features		
Display	counts	4000 4000 4000
Auto Ranging	Auto & Manual	● ● ●
APO	Auto Power Off	● ● ●
Sound & Light Warning	For the Incorrect Inserting the Input Plug	●
°C/F Selection		● ● ●
Diode	1.5V	● ● ●
Continuity Buzzer	<40Ω	● ● ●
Data Hold		● ● ●
LBD	Low Battery display	● ● ●
Display Backlight		● ● ●
General		
Power Supply	3x1.5V AAA Battery	
Product Size	195mm×92mm×55mm/7.7"×3.6"×2.2"	
Product Weight	390g/0.86lb	
Model Number	MS8229	
Order Ref. Number	MS8229S	MS8229NE08
Safety Rating	CAT.III 600V CAT.II 1000V	CAT.III 600V CAT.II 1000V
	CE(EMC+LVD)	
	ETL	

● Feature Difference



DIGITAL MULTIMETER MY70 / MY74 / MY74B

MY70

VOLTAGE	DC 600V AC 600V
CURRENT	DC 10A AC 10A
FUNCTIONS	~V ~A Ω
TEST	hFE H Apo

EMC
LVD

MY74

VOLTAGE	DC 600V AC 600V
CURRENT	DC 10A AC 10A
FUNCTIONS	~V ~A Ω
TEST	hFE °C hFE
TEST	~V ~A H
TEST	Apo



Specifications

Specifications	Range	MY70	MY74	MY74B	Accuracy
DC Voltage	200mV/2V/20V/200V 600V	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)	±(0.8%+2)
AC Voltage	200mV 2V/20V/200V 600V	±(1.2%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
DC Current	20μA 200μA 2mA 20mA 200mA 10A	±(2.0%+5)	±(0.8%+1)	±(0.8%+1)	±(2.0%+5)
AC Current	20μA 200μA 2mA 20mA 200mA 10A	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)	±(1.5%+7)
Resistance	200Ω 2KΩ/20KΩ/200KΩ/2MΩ 20MΩ 200 MΩ	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+2)
Capacitance	2nF/20nF/200nF/2μF 100μF	±(4.0%+3)	±(4.0%+3)	±(6.0%+10)	±(6.0%+10)
Frequency	20kHz		±(2.0%+5)	±(2.0%+5)	
Temperature	-20°C~0°C 1°C~400°C 401°C~1000°C		±(5.0%+4)	±(5.0%+4)	

Features

Display	counts	2000	2000	2000
APO	Auto Power Off	●	●	●
Transistor hFE	0~1000	●	●	●
Diode	2.8V	●	●	●
Continuity Buzzer	<50Ω	●	●	●
Data Hold		●	●	●
LBD	Low Battery Display	●	●	●
General				
Power Supply	1x9V 6F22 Battery			
Product Size	188mm×93mm×50mm/7.4"×3.7"×1.96"			
Product Weight	380g/0.84lb			
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS			

● Feature Difference

MY74B

VOLTAGE	DC 600V AC 600V
CURRENT	DC 10A AC 10A
FUNCTIONS	~V ~A Ω
TEST	hFE °C hFE
TEST	~V ~A H
TEST	Apo



● Feature Difference

Specifications

MY75 MY78

Specifications	Range	Accuracy	MY75	MY78
DC Voltage	200mV 2V/20V/200V 400mV/4V/40V/400V 600V	±(0.05%+3) ±(0.1%+3) ±(0.7%+2) ±(0.15%+3) ±(0.8%+2)		
AC Voltage	2V 20V/200V 400mV 4V/40V/400V 600V	±(0.5%+3) ±(0.8%+10) ±(3.0%+3) ±(0.8%+3) ±(1.0%+15) ±(1.2%+3)		
DC Current	2mA 20mA 200mA 400μA/4mA/40mA/400mA 10A	±(0.5%+50) ±(0.5%+50) ±(0.8%+50) ±(1.2%+3) ±(2.0%+10) ±(2.0%+5)		
AC Current	2mA 20mA 200mA 400μA/4mA/40mA/400mA 10A	±(0.8%+50) ±(0.8%+50) ±(1.2%+50) ±(1.5%+5) ±(2.5%+10) ±(3.0%+7)		
DC Current (for Clamp Meter)	40A	±(0.8%+3)		
AC Current (for Clamp Meter)	400A	±(0.8%+3)		
Resistance	200Ω 2KΩ/20KΩ/200KΩ/2MΩ 20MΩ 200 MΩ	±(0.5%+10) ±(0.3%+3) ±(0.3%+1) ±(1.2%+2)		
Capacitance	20nF/200nF/2000nF/2μF 100μF	±(4.0%+20) ±(6.0%+10)		
Frequency	20kHz	±(2.0%+5)		
Temperature	-20°C~0°C 1°C~400°C 401°C~1000°C	±(5.0%+4) ±(2.0%+3) ±(2.0%+5)		
Features				Take in only as reference
Duty Cycle	5%~95%	±(2.0%+2)		
Features				
Display	counts	20000	4000	
Auto Ranging	Auto & Manual		●	
APO	Auto Power Off	●	●	
REL	Relative Measurement		●	
Transistor hFE	0~1000	●	●	
Diode	2.8V	2.8V	1.5V	
Continuity Buzzer	<60Ω	●	●	
Data Hold		●	●	
LBD	Low Battery Display	●	●	
General				
Power Supply	1x9V 6F22 Battery	●	●	
Product Size	188mm×93mm×50mm/7.4"×3.7"×1.96"	●		
Product Weight	380g/0.84lb	380g/0.84lb	420g/0.92lb	
Model Number	MY75	MY78		
Order Ref. Number	MY75C15L	MY78E08	MY78C15L	
Safety Rating	CAT III 600V CE(EMC+LVD) ETL	CAT II 600V CE(EMC+LVD) ETL	CAT III 600V CE(EMC+LVD) ETL	

● Feature Difference

DIGITAL MULTIMETER MY75 / MY78

EMC
LVD

MY75

VOLTAGE	DC 600V AC 600V
CURRENT	DC 10A AC 10A
FUNCTIONS	~V ~A Ω
TEST	hFE °C hFE
TEST	~V ~A H
TEST	Apo



MY78

VOLTAGE	DC 600V AC 600V
CURRENT	DC 10A AC 10A
FUNCTIONS	~V ~A Ω
TEST	hFE Hz% °C
TEST	~V ~A REL
TEST	Apo



DIGITAL MULTIMETER MS8360C / MS8360E



MS8360E

VOLTAGE DC 600V
AC 600VCURRENT DC 10A
AC 10A \overline{V} \overline{A} Ω Hz $\text{Hz}^{\%}$

NCV hFE

 H $\text{H}^{\%}$

Apo



Specifications

MS8360C MS8360E

Specifications	Range	Accuracy
DC Voltage	200mV/2V/20V/200V 600V	$\pm(0.5\%+2)$ $\pm(0.5\%+2)$
AC Voltage	2V/20V/200V 600V	$\pm(0.8\%+5)$ $\pm(0.8\%+5)$
DC Current	20mA 200mA 10A	$\pm(1.0\%+1)$ $\pm(1.0\%+1)$ $\pm(2.0\%+5)$ $\pm(2.0\%+5)$
AC Current	20mA 200mA 10A	$\pm(1.5\%+5)$ $\pm(1.5\%+5)$ $\pm(3.0\%+5)$ $\pm(3.0\%+7)$
Resistance	200Ω 2KΩ/20KΩ/200KΩ/2MΩ 20MΩ 200MΩ	$\pm(0.8\%+3)$ $\pm(0.8\%+5)$ $\pm(0.8\%+5)$ $\pm(0.8\%+5)$ $\pm(1.0\%+2)$ $\pm(1.0\%+2)$ $\pm(5.0\%+10)$ $\pm(5.0\%+5)$
Capacitance	20nF/200nF/2μF 200μF	$\pm(4.0\%+3)$ $\pm(4.0\%+5)$ $\pm(5.0\%+10)$ $\pm(5.0\%+5)$
Frequency	20KHz -20°C~0°C 1°C~400°C 401°C~1000°C	$\pm(3.0\%+5)$ $\pm(5.0\%+4)$ $\pm(2.0\%+2)$ $\pm(2.0\%+2)$
Temperature		
Inductance	20mH/200mH/2H/20H	$\pm(3.0\%+5)$

Features

Display	counts	2000	2000
APO	Auto Power Off	●	●
NCV	Non-Contact Voltage Detector	●	●
Transistor hFE	0~1000	●	●
Diode		2.8V	2.7V
Continuity Buzzer	<30Ω	●	●
Data Hold		●	●
Display Backlight		●	●
LBD	Low Battery Display	●	●

General

Power Supply	1x9V6F22 Battery
Product Size	188mm×92mm×50mm/7.4"×3.6"×2.0"
Product Weight	380g/0.83lb
Model Number	MS8360C MS8360E
Order Ref. Number	MS8360CE08 MS8360CC15L MS8360E08 MS8360EC15L
Safety Rating	CAT.II 1000V CAT.III 600V CAT.II 1000V CAT.III 600V CAT.III 600V CE(EMC+LVD) CE(EMC+LVD)
ETL	ETL

● Feature Difference



Specifications

MS8360F MS8360G

Specifications	Range	Accuracy
DC Voltage	400mV/4V/40V/400V 600V	$\pm(0.5\%+2)$ $\pm(0.5\%+2)$
AC Voltage	400mV 2V/20V/400V 600V	$\pm(1.2\%+20)$ $\pm(2.0\%+3)$
DC Current	400μA/4000μA/40mA/400mA 1A/10A 4A/10A	$\pm(0.8\%+3)$ $\pm(1.0\%+5)$ $\pm(1.0\%+3)$
AC Current	400μA/4000μA/40mA/400mA 1A/10A 4A/10A	$\pm(1.2\%+2)$ $\pm(2.0\%+2)$
Resistance	400Ω 4kΩ/40kΩ/400kΩ/4MΩ/40MΩ 40MΩ 400MΩ	$\pm(0.8\%+3)$ $\pm(0.8\%+1)$
Capacitance	40nF/400nF/4μF/200μF 400nF/40nF/4/40/400/4000μF	$\pm(4.0\%+15)$ $\pm(3.0\%+5)$
Frequency	9.999/99.99/999.9Hz/9.999/ 99.99/999.9kHz/9.999MHz	$\pm(4.0\%+15)$ $\pm(0.5\%+2)$
Duty Cycle	1%~99%	$\pm(2.0\%+2)$ $\pm(2.0\%+2)$
Temperature	-20°C~0°C 1°C~400°C 401°C~1000°C	$\pm(5.0\%+4)$ $\pm(1.0\%+3)$ $\pm(2.0\%+2)$

Features

Display	counts	4000	4000
Auto Ranging	Auto and Manual	●	●
APO	Auto Power Off	●	●
REL	Relative Measurement	●	●
NCV	Non-Contact Voltage Detector	●	●
Transistor hFE	0~1000	●	●
Diode		0.5V	2.8V
Continuity Buzzer	<50 ±20Ω	●	●
MAX/MIN			●
Bar Graph			●
Data Hold		●	●
Display Backlight		●	●
LBD	Low Battery Display	●	●

General

Power Supply	1x9V6F22 Battery
Product Size	188mm×92mm×50mm/7.4"×3.6"×2.0"
Product Weight	380g/0.83lb
Model Number	MS8360F MS8360G
Order Ref. Number	MS8360FE08 MS8360FC15L MS8360GE08 MS8360GC15L
Safety Rating	CAT.II 1000V CAT.III 600V CAT.II 1000V CAT.III 600V CAT.III 600V CE(EMC+LVD) CE(EMC+LVD)
ETL	ETL

● Feature Difference



MS8360G



DIGITAL MULTIMETER

MS8250A / MS8250B / MS8250D

EMC
LVD CAT.III
1000V 600V PATENTED

MS8250A

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



MS8250B

USB 1
MS8250B



MS8250D

VOLTAGE DC 1000V
AC 1000V

CURRENT DC 10A
AC 10A



Specifications

Specifications

MS8250A MS8250B MS8250D

	Accuracy		
DC Voltage	400mV	±(0.8%+3)	±(0.8%+3)
	4V/40V/400V/600V	±(0.5%+5)	±(0.5%+5)
	660mV		±(0.8%+3)
	6.6V/66V/660V/1000V		±(0.5%+5)
AC Voltage	400mV	±(1.0%+5)	±(1.0%+5)
	4V/40V/400V	±(0.8%+5)	±(0.8%+5)
	600V	±(1.2%+3)	±(1.2%+3)
	660mV		±(1.5%+5)
	6.6V/66V		±(1.2%+5)
	660V/1000V		±(1.0%+3)
DC Current	400μA/4000μA/40mA/400mA	±(0.8%+2)	±(0.8%+2)
	4A/10A	±(1.2%+2)	±(1.2%+2)
	660μA/6600μA/66mA/660mA		±(1.0%+5)
	10A		±(2.0%+5)
AC Current	400μA/4000μA/40mA/400mA	±(1.5%+2)	±(1.5%+2)
	4A/10A	±(3.0%+5)	±(3.0%+5)
	660μA/6600μA/66mA/660mA		±(1.5%+5)
	10A		±(3.0%+5)
Resistance	400Ω/4/40/400Ω/4MΩ	±(1.0%+5)	±(1.0%+5)
	40MΩ	±(1.2%+15)	±(1.2%+15)
	660Ω/6.6/66/660kΩ/6.6MΩ		±(0.8%+5)
	66MΩ		±(1.5%+5)
Capacitance	40nF/400nF/4μF/40μF/100μF	±(3.0%+5)	±(3.0%+5)
	6.6nF		±(4.0%+5)
	66/660nF/6.6/660μF		±(3.0%+3)
	6.6mF/66mF		±(4.0%+5)
Frequency	5Hz/50Hz/500Hz/ 5kHz/50kHz/500kHz/5MHz	±(0.5%+2)	±(0.5%+2)
	66Hz/660Hz/6.6kHz/66kHz/ 660kHz/6.6MHz/66MHz		±(1.5%+5)
Duty Cycle	0.1%~99.9%	±(2%+2)	±(2%+2)
Features	Display	counts	4000 4000 6600
	Auto Ranging		● ● ●
	Manual Ranging		● ● ●
	APO	Auto Power Off	● ● ●
	REL	Relative Measurement	● ● ●
	True RMS	True Root Mean Square	● ●
	NCV	Non-Contact Voltage Detection	● ● ●
	Diode	1.5V 1.5V 3.2V	
	Continuity Buzzer	<50Ω	● ● ●
	MAX/MIN		● ●
	Bar Graph		● ●
	Data Hold		● ● ●
	LBD	Low Battery Display	● ● ●
	Display Backlight		● ● ●
	USB Interface	Windows OS	● ● ●
General	Power Supply	1x9V 6F22 Battery	
	Product Size	175mm×86mm×52mm/6.89"×3.38"×2.04"	
	Product Weight	350g/0.77lb	
	Order Ref. Number	MS8250A/C15L MS8250B/C15L MS8250D/C15L	
	Safety Rating	CAT.IV 600V CAT.IV 600V CAT.III 1000V CAT.IV 600V CE(EMC+LVD) CE(EMC+LVD) CE(EMC+LVD)	

● Feature Difference

DIGITAL MULTIMETERS

DIGITAL MULTIMETER

MS8250G

EMC
LVD CAT.III
1000V 600V PATENTED

Specifications

MS8250G

	Range	Accuracy
DC Voltage	600mV	±(0.8%+3)
	6.6V/66V/660V/1000V	±(0.5%+5)
AC Voltage	600mV	±(1.5%+5)
	6.6V/66V	±(1.2%+5)
	660V/1000V	±(1.0%+3)
DC Current	660μA/6600μA/66mA/660mA	±(1.0%+5)
	10A	±(2.0%+5)
AC Current	660μA/6600μA/66mA/660mA	±(1.5%+5)
	10A	±(3.0%+5)
Resistance	660Ω/6.6/66/660kΩ/6.6MΩ	±(0.8%+5)
	66MΩ	±(1.5%+5)
Capacitance	6.6nF	±(4.0%+5)
	66nF/660nF/660μF/660μF	±(3.0%+3)
	66mF/660mF	±(4.0%+5)
Frequency	66Hz/660Hz/6.6kHz/66kHz/6.6MHz/66MHz	±(1.5%+5)
Duty Cycle	0.1%~99.9%	±(2%+2)
Temperature	-20°C~1000°C	±(2.0%+2)
	-4°F~1832°F	±(2.0%+4)
Features	Display	counts 6600
	Auto Ranging	●
	Manual Ranging	●
	APO	Auto Power Off
	REL	Relative Measurement
	True RMS	True Root Mean Square
	Bar Graph	●
	NCV	Non-contact Voltage Detection
	Diode	2.7V
	Continuity Buzzer	<50Ω
	MAX/MIN	
	Data Hold	
	Display Backlight	
	Bluetooth	Android / IOS
	LBD	Low Battery Display
General	Power Supply	1x9V 6F22 Battery
	Product Size	175mm×86mm×52mm/6.89"×3.38"×2.04"
	Product Weight	350g/0.77lb
	Safety Rating	CE(EMC+LVD) ETL CAT.III 1000V CAT.IV 600V RoHS



MS8250G

VOLTAGE DC 1000V
AC 1000V

CURRENT DC 10A
AC 10A

Hz% AUTO Apo

REL TRMS

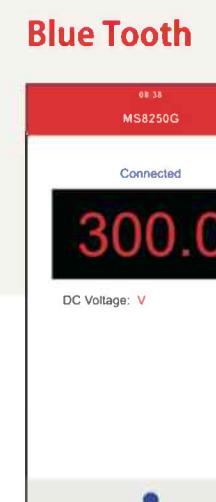
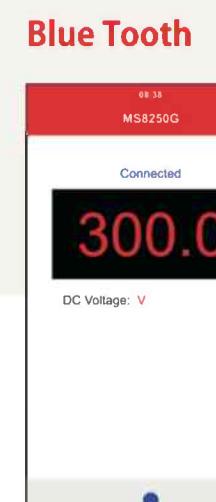
NCV → ()

MAX MIN H

Bluetooth

Hz% ()

NEW



BENCH TOP MULTIMETER

M58040 WITH 22000 COUNTS



EMC
LVD 



Specifications

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
REL	Relative Measurement
Peak	Peak Measurement
Diode	2.5V
Continuity Buzzer	<50Ω
MAX/MIN	●
Data Hold	●
Display Backlight	●
USB Interface	Windows OS
General	
Power Supply	220V/110V AC(50~60Hz), 1x9V 6F22 Battery、6x1.5V AA Batteries
Product Size	238mm×230mm×83mm / 9.4"×9.1"×3.3"
Product Weight	1500g/3.4lb
Safety Rating	CE(EMC+LVD) CAT II 1000V RoHS

Specifications

Specifications		Range	Accuracy
DC Voltage		200mV/2V/20V/200V/1000V	±(0.05%+6)
AC Voltage		200mV/2/20/200/750V(40~60Hz)	±(0.5%+30)
		200mV/2/20/200/750V(60~5kHz)	±(1.5%+30)
		200mV/2/20/200/750V(5~10kHz)	±(2.5%+30)
DC Current		200μA/2mA/20mA/200mA	±(0.15%+1)
		10A	±(0.5%+15)
AC Current		200μA/2/20/200mA(40~60Hz)	±(0.8%+30)
		10A(40~60Hz)	±(1.0%+30)
		200μA/2/20/200mA(60Hz~1kHz)	±(1.0%+30)
		10A(60Hz~1kHz)	±(1.5%+30)
		200μA/2/20/200mA(1kHz~5kHz)	±(1.2%+30)
		10A(1kHz~5kHz)	±(2.0%+30)
Resistance		200Ω/2KΩ	±(0.1%+10)
		20KΩ/200KΩ	±(0.1%+5)
		2MΩ	±(0.1%+10)
		20MΩ	±(0.5%+10)
		200MΩ	±(2%+10)
Capacitance		20nF/200nF/2μF/20μF	±(1.2%+30)
		200μF/2000μF/20mF	±(2.2%+30)
Logic Frequency		20Hz~220MHz	±(0.06%+1)
Linear Frequency		5Hz~100kHz	±(0.06%+1)
Temperature(°C)		-30°C~1300°C/-22°F~2372°F	±(1%+2)
Duty Cycle		5%~95%	±10%
Clamp DC Current		220A/2200A	±(0.1%+10)
Clamp AC Current		220A/2200A (50~60Hz)	±(1%+30)

**BENCH TOP MULTIMETER
WITH 53000 COUNTS** **MS8050**



MS8050

VOLTAGE	DC 1000V AC 1000V
CURRENT	DC 10A AC 10A
Ω	
Hz%	AUTO
Apo	dBm
MAX MIN	
AVG	H
TRMS	VFD
USB	

EMC
LVD



Specifications

Specifications		Range	Accuracy
DC Voltage	50mV	±(0.03%+	
	500mV/5V/50V/500V/1000V	±(0.03%+	
AC Voltage	50mV	±(0.03%+	
	500mV/5V/50V/500V/1000V	±(0.03%+	
DC Current	500µA	±(0.15%+	
	5mA/50mA/500mA	±(0.15%+	
	5A/10A	±(0.5%+1	
AC Current	500µA/5/50/500mA/5A(40Hz~1kHz)	±(0.75%+	
	500µA/5/50/500mA/5A(1kHz~10kHz)	±(1.0%+2	
	500µA/5/50/500mA/5A(10kHz~20kHz)	±(2.0%+2	
	10A(40Hz~1kHz)	±(1.0%+1	
	10A(1kHz~10kHz)	±(5.0%+2	
Resistance	500Ω	±(0.1%+1	
	5KΩ/50KΩ/500KΩ	±(0.1%+5	
	5MΩ	±(0.1%+1	
	50 MΩ	±(0.5%+1	
Capacitance	50nF/500nF	±(1.0%+1	
	5µF/50µF	±(1.0%+1	
	500µF/5000µF	±(2.0%+1	
Logic Frequency	5Hz ~2MHz	±(0.006%	
Duty Cycle	10%~90%	±10%	
Linear Frequency	5Hz~200kHz	±(0.006%	

MS8050

Specifications		MS8050
Features		
Display VFD	53000 counts	
Auto Ranging	Auto & Manual	
APO	Auto Power Off	
PC	PC Analysis Software	
Measurement	mV, V, mA, A (Voltage & Current AC+DC)	
True RMS	For AC Voltage & AC Current	
dBm Measurement	4Ω, 8Ω, 16Ω, 32Ω, 50Ω, 75Ω, 93Ω, 110Ω, 125Ω, 135Ω, 150Ω, 200Ω, 250Ω, 300Ω, 500Ω, 600Ω, 800Ω, 900Ω, 1000Ω, 1200Ω	
REL	Relative Measurement	
Diode	2.5V	
Continuity Buzzer	<50Ω	
MAX	MAX/MIN/MAX-MIN/AVG	
Data Hold	●	
Data Logging	30 groups	
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	
Safety Rating	CE(EMC+LVD) CAT II 1000V RoHS	

DIGITAL MULTIMETER MS8216

**MS8216****VOLTAGE** DC 600V
AC 600V**Ω****Hz%****AUTO****Apo****REL****H**MASTECH® MS8216 DMM
-8.888
kMHz %
nmFAVDC 600V
AC 600V
Ω Hz
Hz%
Auto Apo
REL
HAUTO POWER OFF
300V CAT III
600V CAT II**Specifications****MS8216**

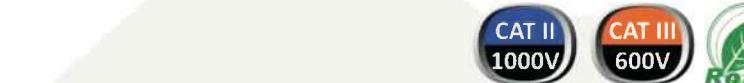
Specifications	Range	Accuracy
DC Voltage	400mV/4V/40V/400V/600V	±(0.7%+2)
AC Voltage	4V/40V/400V/600V	±(0.8%+3)
Resistance	400Ω/4KΩ/40KΩ/400KΩ/4MΩ	±(1.2%+2)
	40MΩ	±(2.0%+5)
Capacitance	4nF/40nF/400nF/4μF/40μF/200μF	±(3.0%+3)
	9.999Hz	±(2.0%+5)
Frequency	99.99Hz/999.9Hz/9.999kHz	±(1.5%+5)
	99.99kHz/199.99kHz	±(2.0%+5)
	>200kHz	Take it only as reference
Duty Cycle	0.1%~99.9%	±3.0%

Features

Display	counts	4000
Auto Ranging	Auto & manual	●
APO	Auto Power Off	●
REL	Relative Measurement	●
Diode	1.5V	●
Continuity Buzzer	<25Ω	●
Data Hold		●
Display Backlight		●
LBD	Low Battery Display	●
General		
Power Supply	3x1.5AAA Batteries	
Product Size	185mm×87mm×53mm/7.28"×3.4"×2.04"	
Product Weight	360g/0.79lb	
Safety Rating	CAT II 1000V CAT III 600V RoHS	



DIGITAL MULTIMETER MS8217

CAT II
1000VCAT III
600V

RoHS

Specifications**MS8217**

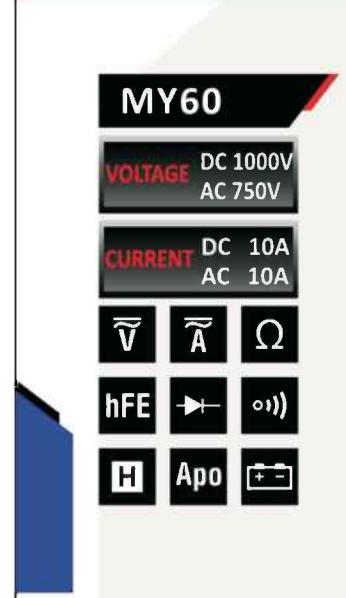
Specifications	Range	Accuracy
DC Voltage	400mV	±(1.0%+10)
	4V/40V/400V/1000V	±(0.5%+3)
AC Voltage	400mV	±(3.0%+3)
	4V/40V/400V/1000V	±(1.0%+3)
DC Current	400μA/4000μA/40mA/400mA/4A/10A	±(1.5%+3)
	400μA/4000μA/40mA/400mA/4A/10A	±(1.5%+3)
Resistance	400Ω	±(0.5%+3)
	4kΩ/40kΩ/400kΩ/4MΩ	±(0.5%+2)
	40MΩ	±(1.5%+3)
Capacitance	50nF	±(3.0%+10)
	500nF/5μF/50μF/100μF	±(3.0%+5)
Frequency	50Hz/500Hz/5kHz/50kHz/100kHz	±(0.1%+3)
Duty Cycle	0.5%~ 95%	±(1.0%)
	-55°C~ 0°C	±(9.0%+2)
Temperature	1°C~ 400°C	±(2.0%+1)
	401°C~ 1000°C	±2.0%

Features

Display	counts	4000
Auto Ranging	Auto & manual	●
APO	Auto Power Off	●
REL	Relative Measurement	●
Diode	1.5V	●
Continuity Buzzer	<25Ω	●
Data Hold		●
Display Backlight		●
LBD	Low Battery Display	●
General		
Power Supply	3x1.5AAA Batteries	
Product Size	185mm×87mm×53mm/7.28"×3.4"×2.04"	
Product Weight	360g/0.79lb	
Safety Rating	CAT II 1000V CAT III 600V RoHS	



DIGITAL MULTIMETER MY60 / MY61 / MY62

**Specifications**

MY60 MY61 MY62

Specifications	Range	Accuracy	MY60	MY61	MY62
DC Voltage	200mV/2V/20V/200V	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)
	1000V	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
AC Voltage	200mV	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)
	2V/20V/200V	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
	750V	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)
DC Current	20μA	±(2.0%+5)			
	200μA/2mA/20mA	±(0.8%+1)			
	2mA/20mA		±(0.8%+1)	±(0.8%+1)	±(0.8%+1)
	200mA	±(1.5%+1)	±(1.5%+1)	±(1.5%+1)	±(1.5%+1)
	10A	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)
AC Current	20μA	±(2.0%+5)			
	200μA	±(1.0%+5)			
	2mA	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)
	20mA	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)	±(1.0%+5)
	200mA	±(1.8%+5)	±(1.8%+5)	±(1.8%+5)	±(1.8%+5)
	10A	±(3.0%+7)	±(3.0%+7)	±(3.0%+7)	±(3.0%+7)
Resistance	200Ω	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
	2KΩ/20KΩ/200KΩ/2MΩ	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
	20MΩ	±(1.0%+2)	±(1.0%+2)	±(1.0%+2)	±(1.0%+2)
	200 MΩ	±(6.0%+10)	±(6.0%+10)	±(6.0%+10)	±(6.0%+10)
Capacitance	2nF/20nF/200nF/2μF		±(4.0%+3)	±(4.0%+3)	±(4.0%+3)
	100μF		±(6.0%+10)	±(6.0%+10)	±(6.0%+10)
Temperature	-20°C~0°C			±(5.0%+4)	
	1°C~400°C			±(2.0%+3)	
	401°C~1000°C			±(2.0%+5)	

Features

Display	counts	2000	2000	2000
APO	Auto Power Off	●	●	●
Transistor hFE	0~1000	●	●	●
Diode	2.8V	●	●	●
Continuity Buzzer	<50Ω	●	●	●
Data Hold		●	●	●
LBD	Low Battery Display	●	●	●

General

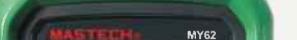
Power Supply	1x9V 6F22 Battery
Product Size	195mm×95mm×55mm/7.67"×3.74"×2.16"
Product Weight	366g/0.8lb
Safety Rating	ETL CAT.II 1000V / CAT.III 600V RoHS

● Feature Difference

MY62

VOLTAGE	DC 1000V
	AC 750V

CURRENT	DC 10A
	AC 10A

**Specifications**

MY63 MY64 MY65

Specifications	Range	Accuracy	MY63	MY64	MY65
DC Voltage	200mV	±(0.05%+3)			
	2V/20V/200V				±(0.1%+3)
AC Voltage	200mV/2V/20V/200V	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)
	1000V	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
DC Current	2V/20V/200V	±(0.8%+3)	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
	1000V	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)
AC Current	2V/20V/200V	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
	1000V	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)
Resistance	200Ω	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
	2KΩ/20KΩ/200KΩ/2MΩ	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
	20MΩ	±(1.0%+2)	±(1.0%+2)	±(1.0%+2)	±(1.0%+2)
	200 MΩ	±(6.0%+10)	±(6.0%+10)	±(6.0%+10)	±(6.0%+10)
Capacitance	2nF/20nF/200nF/2μF	±(4.0%+3)	±(4.0%+3)	±(4.0%+3)	±(4.0%+3)
	100μF	±(6.0%+10)	±(6.0%+10)	±(6.0%+10)	±(6.0%+10)
Temperature	-20°C~0°C		±(5.0%+4)		
	1°C~400°C		±(2.0%+3)		
	401°C~1000°C		±(2.0%+5)		

Features

Display	counts	2000	2000	20000
APO	Auto Power Off	●	●	●
Transistor hFE	0~1000	●	●	●
Diode	2.8V	●	●	●
Continuity Buzzer	<50Ω	<50Ω	<50Ω	<60Ω
Data Hold		●	●	●
LBD	Low Battery Display	●	●	●

General

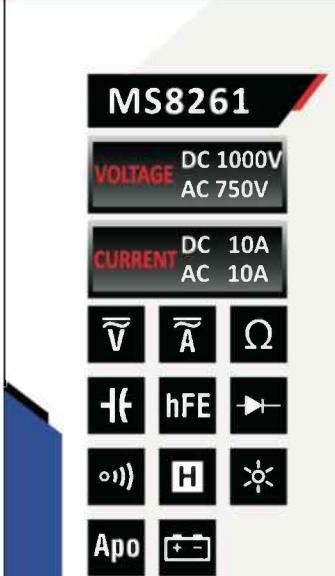
Power Supply	1x9V 6F22 Battery
Product Size	195mm×95mm×55mm/7.67"×3.74"×2.16"
Product Weight	366g/0.8lb
Safety Rating	ETL CAT.II 1000V / CAT.III 600V RoHS

● Feature Difference

VOLTAGE	DC 1000V
	AC 750V

CURRENT	DC 10A
	AC 10A

DIGITAL MULTIMETER MS8261 / MS8264 / MS8269

**Specifications**

Specifications	Range	Accuracy	MS8261	MS8264	MS8269
DC Voltage	200mV/2V/20V/200V	$\pm(0.5\%+1)$	$\pm(0.5\%+1)$	$\pm(0.5\%+1)$	$\pm(0.5\%+1)$
	1000V	$\pm(0.8\%+2)$	$\pm(0.8\%+2)$	$\pm(0.8\%+2)$	$\pm(0.8\%+2)$
AC Voltage	2V/20V/200V	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$
	750V	$\pm(1.2\%+3)$	$\pm(1.2\%+3)$	$\pm(1.2\%+3)$	$\pm(1.2\%+3)$
DC Current	2mA	$\pm(0.8\%+1)$			
	20mA/200mA	$\pm(1.5\%+1)$	$\pm(1.5\%+1)$		
	200mA			$\pm(1.5\%+1)$	
	10A	$\pm(2.0\%+5)$	$\pm(2.0\%+5)$	$\pm(2.0\%+5)$	
AC Current	2mA	$\pm(1.0\%+3)$	$\pm(1.0\%+3)$		
	200mA	$\pm(1.8\%+3)$	$\pm(1.8\%+3)$	$\pm(1.8\%+3)$	
	10A	$\pm(3.0\%+7)$	$\pm(3.0\%+7)$	$\pm(3.0\%+7)$	
Resistance	200Ω	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$	
	2KΩ/20KΩ/200KΩ/2MΩ	$\pm(0.8\%+1)$		$\pm(0.8\%+1)$	
	20MΩ	$\pm(1.0\%+2)$		$\pm(1.0\%+2)$	
	2KΩ/20KΩ/200KΩ/2MΩ/20MΩ	$\pm(0.8\%+1)$			
	200MΩ	$\pm(5.0\%+10)$	$\pm(5.0\%+10)$		
Capacitance	2nF/20nF/200nF/2μF/20μF	$\pm(4\%+3)$	$\pm(4\%+3)$		
	20nF/200nF/2μF			$\pm(4\%+8)$	
	200μF			$\pm(4\%+15)$	
Frequency	20KHz			$\pm(1.5\%+5)$	
Inductance	20mH/200mH/2H/20H				$\pm(3\%+8)$
Temperature	-20°C~0°C			$\pm(5.0\%+4)$	$\pm(5.0\%+4)$
	1°C~400°C			$\pm(1.0\%+3)$	$\pm(1.0\%+3)$
	401°C~1000°C			$\pm 2\%$	$\pm 2\%$
Features					
Display	counts	2000	2000	2000	
APO	Auto Power Off	●	●	●	
Transistor hFE	0~1000	●	●	●	
Diode	2.8V	●	●	●	
Continuity Buzzer		<30Ω	<30Ω	<60Ω	
Data Hold		●	●	●	
Display Backlight		●	●	●	
LBD	Low Battery Display	●	●	●	
General					
Power Supply	1x9V 6F22 Battery				
Product Size	195mm×92mm×55mm/7.7"×3.6"×2.2"				
Product Weight	380g/0.83lb				
Safety Rating	CAT II 1000V / CAT III 600V RoHS				

● Feature Difference

MS8269**VOLTAGE** DC 1000V AC 750V**CURRENT** DC 10A AC 10A \overline{V} , \overline{A} , Ω Hz , hFE , Diode Continuity , Apo 

DIGITAL MULTIMETER MS8265 / MS8268

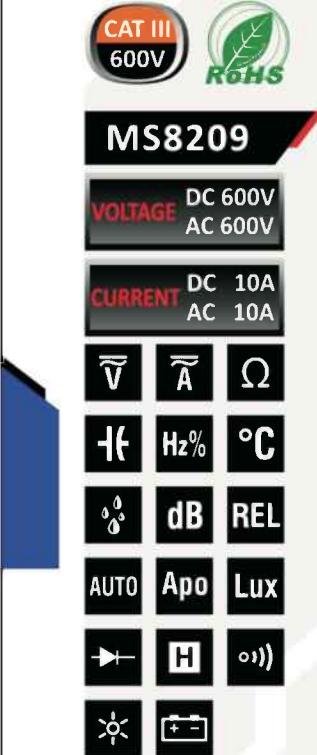
**Specifications**

Specifications	Range	Accuracy	MS8265	MS8268
DC Voltage	200mV	$\pm(0.05\%+5)$		
	2V/20V/200V	$\pm(0.1\%+5)$		
	1000V	$\pm(0.15\%+5)$		
AC Voltage	400mV/4V/40V/400V			$\pm(0.7\%+2)$
	1000V			$\pm(0.8\%+2)$
DC Current	2V(50~60Hz)	$\pm(0.5\%+15)$		
	20V/200V(50~60Hz)	$\pm(0.8\%+15)$		
	750V(50~60Hz)	$\pm(1.0\%+15)$		
AC Current	2V(40~400Hz)	$\pm(1.0\%+15)$		
	20V/200V(40~400Hz)	$\pm(1.0\%+50)$		
	750V(40~400Hz)	$\pm(1.2\%+50)$		
Resistance	400mV	$\pm(3\%+3)$		
	4V/40V/400V	$\pm(0.8\%+3)$		
	750V	$\pm(1.0\%+3)$		
DC Current	2mA/200mA	$\pm(0.5\%+10)$		
	400μA/4000μA/40mA/400mA	$\pm(1.2\%+3)$		
	10A	$\pm(2.0\%+20)$		
AC Current	2mA	$\pm(1.2\%+20)$		
	400μA/4000μA/40mA/400mA	$\pm(1.5\%+5)$		
	10A	$\pm(2.5\%+50)$		$\pm(3.0\%+7)$
Resistance	200Ω	$\pm(0.5\%+10)$		
	2KΩ/20KΩ/200KΩ/2MΩ/20MΩ	$\pm(0.5\%+5)$		
	200MΩ	$\pm(5\%+20)$		
	400Ω/4KΩ/40KΩ/400KΩ/4MΩ			$\pm(1.2\%+2)$
Capacitance	40MΩ			$\pm(2.0\%+5)$
	20nF/200nF/2μF/20μF/200μF	$\pm(4\%+20)$		
	4nF			$\pm(5.0\%+5)$
	40nF/400nF/4μF/40μF/200μF			$\pm(3.0\%+3)$
Frequency	20KHz	$\pm(1.5\%+15)$		
	9.999Hz~199.9kHz			$\pm(2.0\%+5)$
Duty Cycle	5%~ 95%			$\pm(2.0\%+2)$
Features				
Display	counts	2000	2000	4000
Auto Ranging	Auto & Manual			
APO	Auto Power Off	●	●	●
Sound & Light Warning	For incorrectly inserting the input plugs	●	●	●
REL	Relative Measurement		●	●
Transistor hFE	0~1000	●	●	●
Diode	2.8V	●	●	●
Continuity Buzzer	≤50Ω	●	●	●
Data Hold		●	●	●
Display Backlight		●	●	●
LBD	Low Battery Display	●	●	●
General				
Power Supply	1x9V 6F22		1x9V 6F22	3x1.5V AAA
Product Size	195mm×92mm×55mm/7.7"×3.6"×2.2"			
Product Weight	400g/0.9lb			
Safety Rating	CAT II 1000V / CAT III 600V RoHS			

● Feature Difference

MS8265**VOLTAGE** DC 1000V AC 750V**CURRENT** DC 10A AC 10A \overline{V} , \overline{A} , Ω Hz , hFE Diode Continuity Apo 

DIGITAL MULTIMETER WITH ENVIRONMENTAL TESTER



Specifications	Range	Accuracy
DC Voltage	400mV/4V/40V/400V/600V	±(0.7%+2)
AC Voltage	4V/40V/400V/600V	±(0.8%+3)
DC Current	40mA/400mA	±(1.2%+3)
	10A	±(2.0%+10)
AC Current	40mA/400mA	±(1.5%+5)
	10A	±(3.0%+10)
Resistance	400Ω/4KΩ/40KΩ/400KΩ/4MΩ	±(1.2%+2)
	40MΩ	±(2.0%+5)
Capacitance	4nF/40nF/400nF/4μF/40μF/200μF	±(3.0%+3)
	9.999Hz	±(2.0%+5)
Frequency	99.99Hz/999.9Hz/9.999kHz	±(1.5%+5)
	99.99kHz/199.9kHz	±(2.0%+5)
	>200kHz	Tack in only as reference
Duty Cycle	0.1%~99.9%	±3.0%
Temperature(°C)	-20°C~1000°C	±(2.0%+1)
Relative Humidity	30%~90%	±5.0%RH
Sound Level	35dB~100dB (±3.5dB at 94dB, 1kHz sine wave)	±3.5%
Luminosity	4000Lux/40000Lux	±(5.0%+10)
Features		
Display	counts	4000
Auto Ranging	Auto & Manual	●
APO	Auto Power Off	●
Diode	1.5V	●
Continuity Buzzer	<40Ω	●
REL	Relative Measurement	●
Data Hold		●
LBD	Low Battery Display	●
Display Backlight		●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	158mm×78mm×39mm/6.2"×3.1"×1.5"	
Product Weight	260g/0.55lb	
Safety Rating	CAT III 600V RoHS	



DIGITAL MULTIMETER WITH INFRARED THERMOMETER



Specifications	Range	Accuracy
DC Voltage	40mV/400mV/4V/40V/400V/1000V	±(0.7%+2)
AC Voltage	40mV/400mV/4V/40V/400V	±(0.8%+3)
DC Current	750V	±(1.0%+3)
	400μA/4000μA/40mA/400mA	±(1.2%+3)
AC Current	4A/10A	±(2.0%+10)
	400μA/4000μA/40mA/400mA	±(1.5%+5)
Resistance	400Ω/4KΩ/40KΩ/400KΩ/4MΩ	±(1.2%+2)
	40MΩ	±(2.0%+5)
Capacitance	40nF/400nF/4μF/40μF/200μF	±(3.0%+3)
	9.999Hz	±(2.0%+5)
Frequency	99.99Hz/999.9Hz/9.999kHz	±(1.5%+5)
	99.99kHz/199.9kHz	±(2.0%+5)
	>200kHz	Tack in only as reference
Duty Cycle	0.1%~99.9%	±3.0%
Infrared Thermometer (°C/F)	-20°C~270°C	±(2.0%+3)
	270°C~300°C	±(4.0%)
	-4°F~572°F	±(2.0%+6)
Environment T (°C/F)	0°C~40°C	±2.0°C
	32°F~104°F	±4.0°F
Relative Humidity	20%~95%	±5.0%RH
Features		
Display	counts	4000
Auto Ranging	Auto & Manual	●
APO	Auto Power Off	●
Sound & Light	For Incorrectly Inserting the Input Plugs	●
Laser Pointer	Targeting the Measured Point	●
°C/F Selection		●
hFE	1~1000β for transistor under test	●
Emissivity		●
REL	Relative Measurement	●
IR-T	Infrared Temperature	●
Diode	1.5V	●
Continuity Buzzer	<40Ω	●
Data Hold		●
LBD	Low Battery Display	●
Display Backlight		●
General		
Power Supply	3x1.5V AAA Batteries	
Product Size	195mm×92mm×55mm/7.7"×3.6"×2.2"	
Product Weight	400g/0.89lb	
Safety Rating	CE CAT II 1000V / CAT III 600V RoHS	



NETWORK MULTIMETER

MS8235 / MS8236 WITH LAN/PHONE/TONE TESTER

**MS8235**VOLTAGE DC 600V
AC 600VCURRENT DC 10A
AC 10A

V A Ω

AUTO TEL LAN

Hz NCV

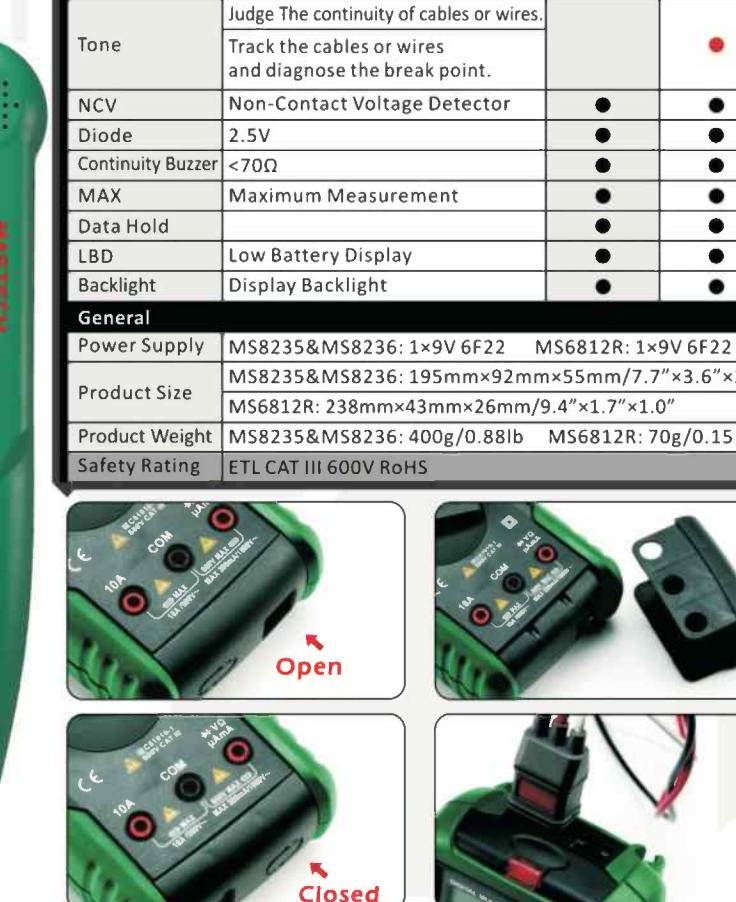
MAX H

Apo

Battery



Specifications		MS8235	MS8236
Specifications	Range	Accuracy	
DC Voltage	200mV/2V/20V/200V/600V	±(0.5%+5)	±(0.5%+5)
AC Voltage	200mV/2V/20V/200V/600V	±(0.8%+5)	±(0.8%+5)
DC Current	200µA/2000µA/20mA/200mA	±(1.2%+5)	±(1.2%+5)
	2A/10A	±(2.0%+5)	±(2.0%+5)
AC Current	200µA/2000µA/20mA/200mA	±(1.5%+5)	±(1.5%+5)
Resistance	200Ω/2/20/200KΩ/2/20MΩ	±(1.0%+5)	±(1.0%+5)
Frequency	20kHz	±(1.5%+5)	
Features			
Display	counts	2000	2000
Auto Ranging	Auto & Manual	●	●
APO	Auto Power Off	●	●
Phone Check	Identify the state in the working telephone line: Busy, Ringing or Clear	●	●
Network Cable Check		●	●
Test for open circuits, shorts, miswires, reversals, split pairs and LCD display the test result.			
SHIELD detection tests a cable's shield integrity.			
Main unit and one remote allow one person testing of T568A, T568B, 10Base-T.			
Easy to read fault display and high speed testing.			
Debug mode for detailed fault identification results.			
Tone			●
Judge The continuity of cables or wires.			
Track the cables or wires and diagnose the break point.			
NCV	Non-Contact Voltage Detector	●	●
Diode	2.5V	●	●
Continuity Buzzer	<70Ω	●	●
MAX	Maximum Measurement	●	●
Data Hold		●	●
LBD	Low Battery Display	●	●
Backlight	Display Backlight	●	●
General			
Power Supply	MS8235&MS8236: 1x9V 6F22 MS8612R: 1x9V 6F22		
Product Size	MS8235&MS8236: 195mm×92mm×55mm/7.7"×3.6"×2.2"		
	MS8612R: 238mm×43mm×26mm/9.4"×1.7"×1.0"		
Product Weight	MS8235&MS8236: 400g/0.88lb MS8612R: 70g/0.15lb		
Safety Rating	ETL CAT III 600V RoHS		

**MS8236**VOLTAGE DC 600V
AC 600VCURRENT DC 10A
AC 10A

V A Ω

AUTO TEL LAN

TONE NCV

MAX H

Apo

Battery



DIGITAL INSULATION MULTIMETER

MS5208

**MS5208**VOLTAGE DC 1000V
AC 750VCURRENT DC 400mA
AC 400mA

V A Ω

H °F/C AUTO

TRMS DAR PI REL

LPF MAX MIN AVG

LOCK MEM o||

H Apo

Battery



Specifications

MS5208

Specifications	Range	Accuracy
DC Voltage	600mV/6V/60V/600V/1000V	±(0.5%+5)
AC Voltage	600mV/6V/60V/600V/750V	±(1.5%+30)
DC Current	60mA/400mA	±(1.0%+5)
AC Current	60mA/400mA	±(1.5%+30)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	±(1.2%+5)
	6MΩ/60MΩ	±(2.0%+20)
Capacitance	6nF/60nF/600nF/6μF/600μF/6mF/60mF	±(5.0%+20)
Frequency	660.0Hz/6.600kHz/66.00kHz >10kHz	±(1.5%+5)
Temperature	-30°C~1300°C -22°F~2372°F	±(1%+2) ±(1%+4)
Output Voltage (Insulation)	Range	Resolution Test Current Accuracy
50V (0~20%)	0~5MΩ	0.01MΩ 1mA@50K ±(3%+5)
	5~50MΩ	0.1MΩ
100V (0~20%)	0~5MΩ	0.01MΩ 1mA@100K ±(3%+5)
	5~50MΩ	0.1MΩ
250V (0~20%)	0~25MΩ	0.1MΩ 1mA@250K ±(3%+5)
	25~250MΩ	1MΩ
500V (0~20%)	0~50MΩ	0.1MΩ 1mA@500K ±(3%+5)
	50~500MΩ	1MΩ
1000V (0~20%)	0~50MΩ	0.1MΩ 1mA@1000K ±(3%+5)
	50~500MΩ	1MΩ
	0.5G~2.0GΩ	0.1GΩ ±(5%+5)

Features
Display counts
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 2.7V
LPF Low Pass Filter Function (1kHz)
LOCK Press Lock
Data Logging 100 groups
Data Recording
MAX/MIN/AVG
Data Hold
Display Backlight
LBD Low Battery Display
General
Power Supply 4x1.5V AA Batteries
Product Size 205mm×102mm×58mm/8.1"×4.0"×2.3"
Product Weight 390g/0.86lb
Safety Rating CAT III 1000V RoHS



MULTI-FUNCTION DIGITAL COUNTER MS6100



Specifications				MS6100
Frequency Measurements				
Channel	Range	Resolution	Accuracy	
A	10MHz	1, 10, 100Hz selectable	$\pm 1 \text{ count} \pm 1 \times 10^{-5}$	
	10Hz~10MHz		$\times \text{frequency(month)}$	
B	100MHz	10, 100, 1000Hz selectable	$\pm 1 \text{ count} \pm 5 \times 10^{-6}$	
	10MHz~100MHz		$\times \text{frequency(minute)}$	
Period Measurements				
Channel	Range	Resolution	Accuracy	
A (only)	0.1S~0.1μS (10Hz~10MHz)	0.0μS 0.00μS 0.000μS selectable	$\pm 1 \text{ count} \pm 1 \times 10^{-5}$ $\times \text{period(month)}$ $\pm 1 \text{ count} \pm 5 \times 10^{-6}$ $\times \text{period(minute)}$	
Total Measurements				
Channel	Range	Resolution	Accuracy	
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		

Specifications				MS6100
Features				
Display	8 digit(22000 count), about 10mm high red LED display with decimal point			
Overrange indications	OFL indication is it			
Power Requirement	AC 198~264V 50/60Hz			
	AC 90~132V 50/60Hz			
Temperature	Operating: 0°C~40°C			
	Storage: -10°C~50°C			
Relative Humidity	20%~80% RH (0°C~40°C)			
Low pass filter	~100kHz, -3dB			
	~150kHz, -3dB at ATTN condition			
Data Hold	●			
Self Check	●			
RESET	After RESET, the instrument is auto 10MHz frequency			
OSC.Out	10MHz			
General				
Power Supply	110/220VAC			
Product Size	300×260×74mm/11.8"×10.2"×2.9"			
Product Weight	1850g/4.02lb			
Safety Rating	CAT III 300V RoHS			

AUTORANGING BENCH TOP MULTIMETER M9803R



Specifications				MS9803R
Features				
Display (42 segment analog bar graph)	3 3/4 digit(4000 count) digital indication. Frequency Range: 9999 counts Max.			
Auto Ranging	Auto & Manual			
True RMS	For AC Voltage & AC Current			
REL	Relative Measurement			
hFE Transistor	1~1000			
Diode	2.5V			
Continuity Buzzer	<40Ω			
MAX/MIN	●			
Data Hold	●			
Display Backlight	●			
Display Storage	Display can be Memorized and Recallable			
USB Interface	Windows OS			
General				
Power Supply	220V/110V AC(50~60Hz). 1x9V 6F22 Battery. 6x1.5V AA Batteries			
Product Size	238mm×230mm×83mm/9.4"×9.1"×3.3"			
Product Weight	1.5kg/3.3lb			
Safety Rating	CAT II 1000V RoHS			

Specifications	Range	Accuracy
DC Voltage	400mV	±(0.3%+5)
	4V/40V/400V/1000V	±(0.3%+2)
AC Voltage	4V/40V/400V/750V (50Hz~60Hz)	±(0.8%+5)
	4V/40V/400V/750V (45Hz~1kHz)	±(1.2%+5)
DC Current	4mA/40mA/400mA	±(0.8%+5)
	10A (20A for 30 seconds)	±(1.5%+10)
AC Current	4mA/40mA/400mA (45Hz~400Hz)	±(1.5%+5)
	10A (20A for 30 seconds) (45Hz~400Hz)	±(2%+10)
Resistance	400Ω	±(0.5%+5)
	4kΩ/40kΩ/400kΩ	±(0.5%+3)
	4 MΩ	±(1%+5)
	40 MΩ	±(1.5%+10)
Capacitance	4nF	±(2%+40)
	4nF/40nF/400nF/4μF	±(2%+5)
	40μF(at <20μF)	±(2%+5)
	40μF(at >20μF)	±(5%+5)
Frequency	100Hz/1kHz/10kHz/100kHz/600kHz	±(0.1%+4)
ADP Measurement	≤400mV (10 Counts Per 1mV DC)	±(0.3%+5)

DIGITAL AC CLAMP METER M266 / M266C / M266F

M266**JAW SIZE**
 $\Phi 50\text{mm}/2.0''$ **VOLTAGE**
DC 1000V
AC 750V**CURRENT**
AC 1000A $\overline{\text{V}}$ $\overline{\text{A}}$ Ω
 H $\text{O}\parallel\text{I}$ **BAT****M266C** $^{\circ}\text{F}/^{\circ}\text{C}$ **M266F****JAW SIZE**
 $\Phi 50\text{mm}/2.0''$ **VOLTAGE**
DC 1000V
AC 750V**CURRENT**
AC 1000A $\overline{\text{V}}$ $\overline{\text{A}}$ Ω
 Hz \rightarrow $\text{O}\parallel\text{I}$
 H **BAT**EMC
LVD**Specifications**

Specifications	Range	M266	M266C	M266F	Accuracy
DC Voltage	200mV 2V/20V/200V 1000V	$\pm(0.5\%+1)$ $\pm(0.5\%+3)$ $\pm(0.8\%+3)$	$\pm(0.5\%+1)$ $\pm(0.5\%+3)$ $\pm(0.8\%+3)$	$\pm(0.5\%+3)$ $\pm(0.5\%+3)$ $\pm(0.8\%+3)$	
AC Voltage	200V 750V 20A	$\pm(1.0\%+5)$ $\pm(1.2\%+5)$ $\pm(4.0\%+5)$	$\pm(1.0\%+5)$ $\pm(1.2\%+5)$ $\pm(4.0\%+5)$	$\pm(1.0\%+5)$ $\pm(1.2\%+5)$ $\pm(4.0\%+5)$	
AC Current	200A 1000A 200Ω	$\pm(2.5\%+5)$ $\pm(3.0\%+10)$ $\pm(1.0\%+5)$	$\pm(2.5\%+5)$ $\pm(3.0\%+10)$ $\pm(1.0\%+5)$	$\pm(2.5\%+5)$ $\pm(3.0\%+10)$ $\pm(1.0\%+5)$	
Resistance	2kΩ/20kΩ/200kΩ/2MΩ	$\pm(1.0\%+8)$	$\pm(1.0\%+8)$	$\pm(1.0\%+8)$	$\pm(1.0\%+8)$
Frequency	2kHz				$\pm(2.0\%+5)$
Temperature	$0^{\circ}\text{C} \sim 400^{\circ}\text{C}$ ($32^{\circ}\text{F} \sim 752^{\circ}\text{F}$) $401^{\circ}\text{C} \sim 750^{\circ}\text{C}$ ($752^{\circ}\text{F} \sim 1382^{\circ}\text{F}$)				$\pm(1.0\%+3)$ $\pm(2.0\%+3)$
Insulation Test	20MΩ 2000MΩ (Note <500Ω) 2000MΩ (Note >500Ω)	$\pm(2.0\%+2)$ $\pm(4.0\%+2)$ $\pm(5.0\%+2)$	$\pm(2.0\%+2)$ $\pm(4.0\%+2)$ $\pm(5.0\%+2)$	$\pm(2.0\%+2)$ $\pm(4.0\%+2)$ $\pm(5.0\%+2)$	
Features	Display Jaw Opening Diode Continuity Buzzer Data Hold LBD	counts $\Phi 50\text{mm}/2.0''$ 2.7V $<100\Omega$ \bullet \bullet \bullet	2000 $\Phi 50\text{mm}/2.0''$ 2.7V $<100\Omega$ \bullet \bullet \bullet	2000 $\Phi 50\text{mm}/2.0''$ 2.7V $<100\Omega$ \bullet \bullet \bullet	2000 $\Phi 50\text{mm}/2.0''$ 2.7V $<100\Omega$ \bullet \bullet \bullet
General	Power Supply Product Size Product Weight Order Ref. Number Safety Rating	1x9V 6F22 Battery 235mm×96mm×46mm/9.25"×3.8"×1.8" 268g/0.59lb M266C15L CAT II 1000V CAT III 600V CE(EMC+LVD) ETL	1x9V 6F22 Battery 235mm×96mm×46mm/9.25"×3.8"×1.8" 268g/0.59lb M266C E08 CAT II 1000V CAT III 600V CE(EMC+LVD) ETL	1x9V 6F22 Battery 235mm×96mm×46mm/9.25"×3.8"×1.8" 268g/0.59lb M266FC15L CAT II 1000V CAT III 600V CE(EMC+LVD) ETL	1x9V 6F22 Battery 235mm×96mm×46mm/9.25"×3.8"×1.8" 268g/0.59lb M266F CAT II 1000V CAT III 600V CE(EMC+LVD) ETL

● Feature Difference

DIGITAL AC/DC CLAMP METER MS2001 / MS2001C / MS2101

MS2001**JAW SIZE**
 $\Phi 42\text{mm}/1.7''$ **VOLTAGE**
DC 1000V
AC 750V**CURRENT**
AC 1000A $\overline{\text{V}}$ $\overline{\text{A}}$ Ω
 \rightarrow $\text{O}\parallel\text{I}$ **H****MS2001C****Specifications**

Specifications	Range	MS2001	MS2001C	MS2101	Accuracy
DC Voltage	400mV/4V/40V/400V 1000V				$\pm(0.7\%+1)$
AC Voltage	4V/40V/400V 700V 750V				$\pm(0.8\%+3)$
DC Current	400A/1000A 20A/200A 1000A				$\pm(1.0\%+2)$
AC Current	200A/1000A 400A/1000A 2000A/2000Ω				$\pm(2.0\%+5)$
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ 40MΩ				$\pm(3.0\%+3)$
Capacitance	4nF/40nF/400nF/4μF/40μF				$\pm(4.0\%+10)$
Frequency	40Hz/400Hz/4kHz/40kHz/100kHz				$\pm(2.0\%+1)$
Duty Cycle	0.1%~99.9%				$\pm(2.0\%+1)$
Temperature	-40°C~0°C 1°C~400°C 401°C~750°C				$\pm(1.0\%+6)$
Features	Display Jaw Opening Auto Ranging APO REL Diode Continuity Buzzer Data Hold Display Backlight General	counts $\Phi 42\text{mm}/1.7''$ Auto & Manual Auto Power Off Relative Measurement 2.7V $<20\Omega$ \bullet \bullet \bullet \bullet \bullet \bullet \bullet	2000 $\Phi 42\text{mm}/1.7''$ Auto & Manual Auto Power Off Relative Measurement 2.7V $<20\Omega$ \bullet \bullet \bullet \bullet \bullet \bullet \bullet	4000 $\Phi 42\text{mm}/1.7''$ Auto & Manual Auto Power Off Relative Measurement 2.7V $<20\Omega$ \bullet \bullet \bullet \bullet \bullet \bullet \bullet	counts $\Phi 42\text{mm}/1.7''$ Auto & Manual Auto Power Off Relative Measurement 2.7V $<20\Omega$ \bullet \bullet \bullet \bullet \bullet \bullet \bullet
General	Power Supply Product Size Product Weight Safety Rating	1x9V 6F22 Battery 250mm×99mm×43mm/9.8"×3.9"×1.7" 416g/0.92lb CAT II 1000V / CAT III 600V RoHS	1x9V 6F22 Battery 250mm×99mm×43mm/9.8"×3.9"×1.7" 416g/0.92lb CAT II 1000V / CAT III 600V RoHS	1x9V 6F22 Battery 250mm×99mm×43mm/9.8"×3.9"×1.7" 416g/0.92lb CAT II 1000V / CAT III 600V RoHS	

● Feature Difference

DIGITAL AC CLAMP METER MS2030 / MS2030A / MS2030B

MS2030

JAW SIZE $\Phi 28\text{mm}/1.1''$

VOLTAGE DC 600V AC 600V

CURRENT AC 400A

FUNCTIONS \bar{V} \bar{A} Ω $\frac{1}{f}$ $\text{Hz}\%$ $^{\circ}\text{F}/^{\circ}\text{C}$

DISPLAY HOLD

MS2030A

Apo NCV $\frac{1}{f}$ $\text{Hz}\%$ LBD

FUNCTIONS \bar{V} \bar{A} Ω $\frac{1}{f}$ $\text{Hz}\%$ $^{\circ}\text{F}/^{\circ}\text{C}$

DISPLAY HOLD RS232

MS2030B

JAW SIZE $\Phi 28\text{mm}/1.1''$

VOLTAGE DC 600V AC 600V

CURRENT AC 600A

FUNCTIONS \bar{V} \bar{A} Ω $\frac{1}{f}$ $\text{Hz}\%$ $^{\circ}\text{F}/^{\circ}\text{C}$

DISPLAY HOLD RS232

Specifications

Specifications	Range	Accuracy	
DC Voltage	600V 400mV/4/40/400/600V	$\pm(1.0\%+3)$ $\pm(1.0\%+3)$ $\pm(0.8\%+3)$	
AC Voltage	600V 400mV/4/40/400/600V	$\pm(1.5\%+10)$ $\pm(1.5\%+10)$ $\pm(1.0\%+5)$	
AC Current	2A/20A 200A 400A 4A/40A/400A/600A	$\pm(2.0\%+10)$ $\pm(2.0\%+5)$ $\pm(2.5\%+5)$	
Resistance	2k Ω 400 Ω /4/40/400k/4M 40M	$\pm(1.0\%+5)$ $\pm(1.0\%+5)$ $\pm(2.0\%+5)$	
Frequency	50/500Hz/5/10kHz	$\pm(1.0\%+5)$	
Capacitance	5n 50/500n/5/50u/100uF	$\pm(4.0\%+5)$ $\pm(3.0\%+3)$	
Temperature	-20°C~1000°C -4°F~1832°F	$\pm(3.0\%+3)$ $\pm(3.0\%+3)$	
Duty Cycle	0.1%~99.9%	$\pm 2.0\%$	
Features			
Display	counts	2000 2000 4000	
Jaw Size		$\Phi 28\text{mm}/1.1''$ $\Phi 28\text{mm}/1.1''$ $\Phi 28\text{mm}/1.1''$	
Auto Ranging			
Auto Power Off		● ●	
Diode		2.7V 2.7V 1.5V	
Continuity	<30Ω	● ● ●	
Data Hold		● ● ●	
Display Backlight		● ● ●	
Work Light		● ● ●	
NCV	Non-Contact Voltage Detector	● ● ●	
LBD	Low Battery Display	● ● ●	
General			
Power Supply	3x1.5V AAA Batteries		
Product Size	198mmx79mmx38mm/7.8"x3.1"x1.5"		
Product Weight	194g/0.43lb		
Model Number	MS2030	MS2030A	MS2030B
Order Ref. Number	MS2030E08	MS2030C15L	MS2030AC15L
Safety Rating	CAT III 600V CE(EMC+LVD) ETL	CAT III 600V CE(EMC+LVD) ETL	CAT III 600V CE(EMC+LVD) ETL

EMC LVD **CE** **ETL** **CAT III 600V** **RoHS**

DIGITAL AC/DC CLAMP METER MS2033C / MS2160

MS2033C

JAW SIZE $\Phi 26\text{mm}/1.0''$

VOLTAGE DC 600V AC 600V

CURRENT AC 600V

FUNCTIONS \bar{V} \bar{A} Ω $\frac{1}{f}$ $\text{Hz}\%$ $^{\circ}\text{F}/^{\circ}\text{C}$

DISPLAY HOLD RS232

Specifications

Specifications	Range	Accuracy
DC Voltage	4V/40V/400V/600V	$\pm(0.8\%+3)$ $\pm(0.8\%+3)$
AC Voltage	4V/40V/400V/600V	$\pm(1.0\%+5)$ $\pm(1.0\%+3)$
DC Current	4A/40A/80A	$\pm(2.5\%+5)$
AC Current	4A/40A/80A	$\pm(2.5\%+5)$
Resistance	4000/4k Ω /40k Ω /400k Ω /4M Ω 40M Ω	$\pm(1.0\%+5)$ $\pm(2.0\%+5)$ $\pm(1.2\%+3)$
Capacitance	4/40/400nF/4/40/400uF/4/40mF	$\pm(4.0\%+5)$ $\pm(3.0\%+3)$
Frequency	50Hz/500Hz/5kHz/10kHz	$\pm(1.0\%+5)$
Temperature	-20°C~1000°C -4°F~1832°F	$\pm(0.3\%+5)$ $\pm(3.0\%+3)$
Duty Cycle	0.1%~99.9% 0.5%~99.5%	$\pm 2.0\%$ $\pm 3.0\%$
Features		
Display	counts	4000 4000
Jaw Size		$\Phi 26\text{mm}/1.0''$ $\Phi 24\text{mm}/0.9''$
Auto Ranging	Auto & Manual	● ●
APO	Auto Power Off	● ●
NCV	Non-Contact Voltage Detector	●
Diode	2.5V	● ●
Continuity	<50Ω	● ●
Data Hold		● ●
Display Backlight		● ●
Work Light		● ●
LBD	Low Battery Display	● ●
Power Supply	3x1.5V AAA Batteries	
Product Size	195x80x45mm/7.8"x3.1"x1.8"	
Product Weight	195g/0.43lb	
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS	

EMC LVD **CE** **ETL** **CAT III 600V** **RoHS** **PATENTED**

MS2160

JAW SIZE $\Phi 24\text{mm}/0.9''$

VOLTAGE DC 600V AC 600V

CURRENT DC 80A AC 80A

FUNCTIONS \bar{V} \bar{A} Ω $\frac{1}{f}$ $\text{Hz}\%$ $^{\circ}\text{F}/^{\circ}\text{C}$

DISPLAY HOLD NCV

Specifications

Specifications	Range	Accuracy
DC Voltage	400V/4000V/600V	$\pm(0.8\%+3)$ $\pm(0.8\%+3)$
AC Voltage	400V/4000V/600V	$\pm(1.0\%+5)$ $\pm(1.0\%+3)$
DC Current	40A/400A/800A	$\pm(2.5\%+5)$
AC Current	40A/400A/800A	$\pm(2.5\%+5)$
Resistance	4000/400k Ω /4000k Ω /4M Ω	$\pm(1.0\%+5)$
Capacitance	4000/400uF/400mF	$\pm(4.0\%+5)$
Frequency	50Hz/500Hz/5kHz/10kHz	$\pm(1.0\%+5)$
Temperature	-20°C~1000°C -4°F~1832°F	$\pm(0.3\%+5)$ $\pm(3.0\%+3)$
Duty Cycle	0.1%~99.9%	$\pm 2.0\%$
Features		
Display	counts	4000 4000
Jaw Size		$\Phi 24\text{mm}/0.9''$
Auto Ranging	Auto & Manual	● ●
APO	Auto Power Off	● ●
NCV	Non-Contact Voltage Detector	●
Diode	2.5V	● ●
Continuity	<50Ω	● ●
Data Hold		● ●
Display Backlight		● ●
Work Light		● ●
LBD	Low Battery Display	● ●
Power Supply	3x1.5V AAA Batteries	
Product Size	195x80x45mm/7.8"x3.1"x1.8"	
Product Weight	195g/0.43lb	
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS	

EMC LVD **CE** **ETL** **CAT III 600V** **RoHS**

NEW

DIGITAL AC CLAMP METER MS2028A / MS2028B

**MS2028A****JAW SIZE**
Φ26mm/1.0"**VOLTAGE**
DC 600V
AC 600V**CURRENT**
AC 600A**Ω****Hz%****AUTO****Apo****MAX****HOLD****MS2028B****JAW SIZE**
Φ26mm/1.0"**VOLTAGE**
DC 600V
AC 600V**CURRENT**
AC 600A**Ω****Hz%****AUTO****Apo****MAX****HOLD**

Specifications

Specifications	Range	Accuracy
DC Voltage	200mV/2V/20V/200V	±(0.8%+2)
	400mV/4V/40V/400V	±(0.8%+2)
	600V	±(1.0%+2) ±(1.0%+2)
AC Voltage	2V/20V/200V	±(1.0%+5)
	400mV/4V/40V/400V	±(1.0%+10)
	600V	±(1.2%+10) ±(1.2%+10)
AC Current	2A(<0.5A)	±(3.5%+20)
	2A	±(3.0%+10)
	20A	±(3.0%+10)
	200A	±(2.5%+10)
	4A(<0.5A)	±(3.5%+20)
	4A	±(3.0%+10)
	40A(<5A)	±(3.0%+10)
	40A	±(2.5%+10)
	400A	±(2.5%+10)
	600A	±(1.5%+5) ±(1.5%+5)
Resistance	200Ω/2KΩ/20KΩ/2MΩ	±(1.2%+2)
	20MΩ	±(2.0%+5)
	400Ω/4kΩ/40KΩ/400KΩ/4MΩ	±(1.2%+2)
	40MΩ	±(2.0%+5)
Capacitance	50nF/500nF/5μF/50μF/100μF	±(4.0%+10)
Frequency	0~100kHz	±(1.5%+15)
Duty Cycle	0.5%~99.9%	±(2.0%+5)
Temperature	-20°C~750°C/-4°F~1380°F	±(2%+2)
Features		
Display	counts	2000 4000
Jaw Opening		Φ26mm/1.0" Φ26mm/1.0"
Auto Ranging	Auto & Manual	● ●
APO	Auto Power Off	● ●
Diode	1.5V	● ●
Continuity Buzzer	<50Ω	● ●
True RMS	True root mean square	●
MAX	Maximum Measurement	●
Data Hold		● ●
Work Light		● ●
Display Backlight		● ●
LBD	Low Battery Display	● ●
General		
Power Supply	3x1.5V AAA Batteries	
Product Size	208mmx78mmx35mm/8.2"x3.1"x1.4"	
Product Weight	245g/0.54lb	
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS	

● Feature Difference

DIGITAL CLAMP METERS

DIGITAL AC/DC CLAMP METER MS2108T / MS2128 / MS2128A



Specifications

Specifications	MS2108T	MS2128	MS2128A
DC Voltage	660mV/6.6V/66V	±(0.8%+3)	±(0.8%+3)
	600V	±(1.0%+5)	±(1.0%+5)
	400mV		±(1.0%+2)
	4V/40V/400V		±(0.7%+2)
	1000V		±(0.8%+2)
AC Voltage	660mV	±(1.5%+10)	±(1.5%+10)
	6.6V/66V	±(1.2%+5)	±(1.2%+5)
	600V	±(1.5%+10)	±(1.5%+10)
	4V/40V/400V		±(8.0%+3)
	750V		±(1.0%+4)
DC Current	66A/600A	±(3.0%+10)	±(3.0%+10)
	40A/400A		±(2.0%+6)
	66A/600A	±(3.0%+10)	±(3.0%+10)
	40A/400A		±(2.0%+6)
Inrush Current	66A/600A	±(10%+60)	±(10%+60)
	660Ω/6.6/66/660kΩ/6.6MΩ	±(1.2%+2)	±(1.2%+2)
	66MΩ	±(2.0%+5)	±(2.0%+5)
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ		±(0.8%+3)
	40MΩ		±(1.2%+3)
Resistance	6.6/66/660μF/6.6/66mF		±(4.0%+3)
	9.0/90/900μF/9.9/90mF	±(4.0%+3)	
	400nF/4μF/40μF/400μF/4000μF		±(4.0%+5)
	660Hz/1kHz	±(1.5%+5)	±(1.5%+5)
	>1kHz	Take it only as reference	Take it only as reference
	10Hz/1kHz		±(1.5%+5)
Frequency (From Clamp)	660Hz/6.6kHz/10kHz	±(1.5%+5)	±(1.5%+5)
	>10kHz	Take it only as reference	Take it only as reference
	10Hz/1kHz/10kHz		±(1.5%+5)
Duty Cycle	10%~95%	±3.0%	±3.0%
Features			
Display	counts	6200 6600	4000
Jaw Opening		Φ26mm/1.0" Φ26mm/1.0" Φ26mm/1.0"	
Auto Ranging	Auto & manual	● ●	● ●
APO	Auto Power Off	● ●	● ●
Inrush	Inrush Current Measurement: 100ms Current Integral		●
True RMS	True root mean square	●	●
Diode	2.7V	2.7V	2.7V 3.3V
Continuity Buzzer		<30Ω	<30Ω <40Ω
MAX/MIN	Max/min Measurement	●	● ●
Data Hold		●	● ●
LBD	Low Battery Display	●	● ●
Display Backlight		●	● ●
Work Light		●	● ●
General			
Power Supply	3x1.5V AAA Batteries		
Product Size	208mmx78mmx35mm/8.2"x3.1"x1.4"		
Product Weight	245g/0.54lb		
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS		

● Feature Difference


MS2108T
NEW
JAW SIZE
Φ26mm/1.0"
VOLTAGE DC 600V
AC 600V
CURRENT DC 600A
AC 600A
Ω Hz%
MAX MIN

MS2128
NEW
1 T-RMS INRUSH
2 MASTE
MS2128 A
AUTO MANU

MS2128A
NEW
JAW SIZE
Φ26mm/1.0"
VOLTAGE DC 750V
AC 1000V
CURRENT DC 400A
AC 400A
Ω Hz% AUTO
Apo MAX MIN H HOLD

DIGITAL AC/DC CLAMP METER

MS2009A / MS2009C / MS2109A



MS2009A

VOLTAGE	DC 600V AC 600V
CURRENT	AC 600A
FUNCTIONS	~ V A Ω Hz% °F/°C
FEATURES	AUTO Apo MAX NCV



MS2009C

1. Press 2 Sec

2. Press 2 Sec

3. Press 2 Sec

VOLTAGE	DC 600V AC 600V
CURRENT	AC 600A
FUNCTIONS	~ V A Ω Hz% °F/°C
FEATURES	AUTO Apo MAX NCV



MS2109A

VOLTAGE	DC 600V AC 600V
CURRENT	AC 600A
FUNCTIONS	~ V A Ω Hz% °F/°C
FEATURES	AUTO Apo MAX MIN H NCV

EMC LVD    

Specifications

Specifications	Range	Accuracy
DC Voltage	200mV/2V/20V/200V 600mV/6V/60V 600V 600mV/6V/60V/600V	±(0.6%+3) ±(0.8%+2) ±(0.8%+3) ±(1.0%+2)
AC Voltage	200mV 2V/20V/200V 6V/60V 600mV/6V/60V 600V	±(2.0%+3) ±(0.8%+5) ±(0.8%+3) ±(1.0%+10) ±(1.0%+5)
DC Current	60A/600A 2A/20A/200A/600A	±(0.6%+3) ±(2.0%+5)
AC Current	6A/60A/600A 60A/600A	±(2.5%+10) ±(2.5%+6)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ 20MΩ 600Ω/6kΩ/60kΩ/600kΩ/6MΩ 60MΩ 600Ω/6kΩ/60kΩ/600kΩ 6MΩ/60MΩ 40nF/400nF/4/40/400/4000uF	±(0.8%+4) ±(1.2%+5) ±(1.2%+2) ±(2.0%+2) ±(0.8%+3) ±(1.2%+3) ±(4.0%+5)
Capacitance	10/100nF/1/10/100/1000μF 10mF/60mF	±(3.0%+10) ±(4.0%+10)
Frequency	A 99.99Hz/999.9Hz V 99.99Hz/999.9Hz/9.999kHz Hz/DUTY 9.999/99.99/999.9Hz/9.999/99.99/999.9kHz/9.999MHz 10MHz	±(1.5%+5) ±(1.5%+5) ±(0.5%+3) ±(0.5%+5)
Duty Cycle	0.1%~99.9% 0.5%~99%	±(3.0%+5) ±(1.5%+15)
Temperature	-20~1000°C -4~1832°F	±(2.0%+2) ±(2.0%+4)

Features

Display	counts	2000	6000	6000
Jaw Opening	Φ26mm/1.0"	●	●	●
Auto Ranging	Auto Power Off	●	●	●
NCV	Non-Contact Voltage Detector	●	●	●
REL	Relative Measurement			●
Diode		1.5V	2.7V	3.3V
Continuity Buzzer		<60Ω	<50Ω	<70Ω
MAX		●		●
MIN				●
Data Hold		●	●	●
Display Backlight		●	●	●
Work Light		●	●	●
LBD	Low Battery Display	●	●	●
General				
Power Supply	3x1.5V AAA Batteries			
Product Size	218mm×78mm×35mm/8.9"×3.1"×1.4"			
Product Weight	239g/0.53lb			
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS			

● Feature Difference

DIGITAL CLAMP METERS

DIGITAL AC/DC ELECTRICAL TESTER

MS2600 / MS2601



MS2600

VOLTAGE	DC 1000V AC 700V
CURRENT	AC 200A
FUNCTIONS	~ V A Ω Hz% AUTO
FEATURES	Apo REL H



MS2601

VOLTAGE	DC 600V AC 600V
CURRENT	DC 1000uA AC 200A
FUNCTIONS	~ V A Ω Hz% Temp
FEATURES	AUTO Apo H NCV

EMC LVD    

Specifications

Specifications	Range	Accuracy
DC Voltage	4V/40V/400V 1000V 600mV/6V/60V/600V	±(0.7%+1) ±(0.8%+3) ±(0.7%+3)
AC Voltage	4V/40V/400V 700V 6V/60V/600V	±(0.8%+5) ±(1.0%+10) ±(0.8%+3)
DC Current	600uA/1000uA	±(1.0%+4)
AC Current	200A 400Ω/4kΩ/40kΩ/400kΩ/4MΩ 40MΩ 600Ω/6kΩ/60kΩ/600kΩ 6MΩ/60MΩ	±(3.0%+3) ±(1.2%+1) ±(2.0%+3) ±(0.8%+3) ±(1.2%+3)
Resistance	40nF/400nF/4μF/40μF 60nF/600nF/6μF/60μF/600μF/60mF	±(4.0%+10) ±(4.0%+5)
Capacitance	40Hz/400Hz/4kHz/40kHz/100kHz 10~60MHz	±(2.0%+1)
Frequency	0.1%~99.9% 0.5%~95%	±3.0% ±0.3%
Duty Cycle	-20~1000°C -20~0°C(-4~32°F)	±(3.0%+2) ±(2.0%+2)
Temperature	0~400°C(32~752°F)	±(2.0%+2)

Features

Display	counts	4000	6000
Jaw Opening	Φ12mm/0.5"	●	●
Auto Ranging	Auto & Manual	●	●
Auto Power Off	Auto Power Off	●	●
NCV	Non-Contact Voltage Detector	●	●
REL	Relative Measurement	●	
Diode		2.7V	3.3V
Continuity Buzzer		<30Ω	<50Ω
Data Hold		●	●
Worklight			●
Display Backlight		●	●
LBD	Low Battery Display	●	●
General			
Power Supply	1x9V 6F22 Battery	●	●
Product Size	192x68x43mm/7.56x2.67x1.7"	●	●
Product Weight	230g/0.5lb	265g/0.58lb	
Order Ref. Number	MS2600E08	MS2601C15L	
Safety Rating	CAT.III 600V	CAT.III 600V	CE(EMC+LVD)
	ETL	ETL	

● Feature Difference

73

74

DIGITAL AC CLAMP METER MS2025A / MS2025C WITH TRMS/NCV

MS2025A**JAW SIZE**
Φ40mm/1.6"**VOLTAGE**
DC 1000V
AC 750V**CURRENT**
AC 1000A**⎓** **⎓** **Ω****Hz%** **AUTO****Apo** **REL** **▶****MAX** **MIN** **H****Light** **Battery** **Speaker****TRMS** **NCV****MS2025C****JAW SIZE**
Φ40mm/1.6"**VOLTAGE**
DC 1000V
AC 750V**CURRENT**
AC 1000A**⎓** **⎓** **Ω****Hz%** **AUTO****Apo** **REL** **▶****MAX** **MIN** **H****Light** **Battery** **Speaker****TRMS** **NCV****EMC**
LVD**PATENTED****Specifications****MS2025A** **MS2025C**

Specifications	Range	Accuracy
DC Voltage	60mV/600mV/6V/60V/600V	±(0.5%+5)
	660mV	±(0.8%+2)
	6.6V/66V/660V	±(0.7%+2)
	1000V	±(0.8%+4) ±(0.8%+2)
AC Voltage	60mV/600mV/6V/60V/600V	±(0.6%+5)
	660mV	±(1.5%+5)
	6.6V/66V/660V	±(0.8%+3)
	750V	±(0.8%+4) ±(1.0%+4)
AC Current	60A/600A/1000A	±(2.0%+8)
	66A/660A/1000A	±(2.5%+6)
	600Ω/6kΩ/60kΩ/600kΩ	±(0.8%+3)
	6MΩ/60MΩ	±(1.2%+3)
Resistance	660Ω/6.6kΩ/66kΩ/660kΩ	±(0.8%+3)
	6.6MΩ/66MΩ	±(1.2%+3)
	9.999/99.99/999.9nF/9.999/99.99/99.9μF/9.999/99.99mF	±(3.0%+5)
	6.6nF/66nF/660nF/6.6μF/66μF/660μF/6.6mF/66mF	±(4.0%+5)
Frequency (From Clamp)	99.99Hz/999.9Hz	±(1.5%+5)
Frequency (AC Voltage)	99.99Hz/999.9Hz/9.999kHz	±(1.5%+5)
Logic Frequency	9.999/99.99/999.9Hz/9.999/99.99/99.9kHz/9.999MHz	±(0.5%+2)
	66/660Hz/6.6/66/660kHz/6.6/66MHz	±(0.5%+2)
	0.1%~99.9%	±3.0% ±3.0%
	-20°C~1000°C/-4°F~1832°F	±(2%+2)
Features		
Display	counts	6000 6600
Jaw Opening		Φ40mm/1.6" Φ40mm/1.6"
Auto Ranging	Auto & Manual	● ●
APO	Auto Power Off	● ●
REL	Relative Measurement	● ●
Diode	3.3V	3.2V
Continuity Buzzer	<50Ω	● ●
MAX/MIN		● ●
Data Hold		● ●
Display Backlight		● ●
LBD	Low Battery Display	● ●
Work Light		● ●
True RMS	True Root Mean Square	● ●
NCV	Non-Contact Voltage Detector	● ●
Dual Display		● ●
Bar Graph	Segments Bar Graph	● ●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	238mmx92mmx50mm/9.37"x3.6"x1.9"	
Product Weight	390g/0.86lb	
Safety Rating	CE(EMC+LVD) ETL CAT III 1000V RoHS	

● Feature Difference

DIGITAL AC/DC CLAMP METER WITH TRMS/NCV MS2125A / MS2125B

EMC
LVD**PATENTED****Specifications****MS2125A** **MS2125B**

Specifications	Range	Accuracy
DC Voltage	60mV/600mV/6V/60V/600V	±(0.5%+5)
	600mV/6V/60V/600V	±(0.5%+5)
	1000V	±(0.8%+4) ±(0.8%+4)
	60mV/600mV/6V/60V/600V	±(0.6%+5)
AC Voltage	60mV/600mV/6V/60V/600V	±(0.8%+5)
	750V	±(0.8%+4) ±(0.8%+4)
	60A/600A/1000A	±(2.0%+8)
	60A/600A/1000A	±(2.5%+8)
Inrush Current	60A/600A/1000A	±(10%+60)
	600Ω/6kΩ/60kΩ/600kΩ	±(0.8%+3) ±(0.8%+3)
	6MΩ/60MΩ	±(2.0%+5) ±(1.2%+3)
	9.999/99.99/999.9nF/9.999/99.99/99.9μF/9.999/99.99mF	±(3.0%+5)
Resistance	6.6nF/66nF/660nF/6.6μF/66μF/6.6mF/66mF	±(4.0%+5)
	9.999/99.99/999.9Hz/9.999/99.99/99.9kHz/9.999MHz	±(3.0%+5)
	60.00/600.0Hz/6.00/60.00kHz	±(3.0%+5)
	60.00/600.0Hz/6.00/60.00MHz	±(3.0%+5)
Capacitance	A	99.99Hz/999.9Hz
	V	99.99Hz/999.9Hz/9.999kHz
	Hz/DUTY	9.999/99.99/999.9Hz/9.999/99.99/99.9MHz
	A	60.00/600.0Hz/6.00/600kHz
Frequency	V	60.00/600.0Hz/6.00/60.00kHz
	Hz	60.00/600.0Hz/6.00/60.00MHz
	Duty Cycle	0.1%~99.9% ±3.0%
		10%~90% ±3.0%
Features		
Display	counts	6000 6000
Jaw Opening		Φ40mm/1.6" Φ40mm/1.6"
Auto Ranging	Auto & Manual	● ●
APO	Auto Power Off	● ●
REL	Relative Measurement	● ●
Diode	3.3V	● ●
Continuity Buzzer	<50Ω	● ●
MAX/MIN		● ●
Data Hold		● ●
Display Backlight		● ●
LBD	Low Battery Display	● ●
Work Light		● ●
True RMS	True Root Mean Square	● ●
NCV	Non-Contact Voltage Detector	● ●
Inrush	Inrush Current Measurement	● ●
Dual Display		● ●
Bar Graph	Segments Bar Graph	● ●
USB interface	Windows OS	● ●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	238mmx92mmx50mm/9.37"x3.6"x1.9"	
Product Weight	386g/0.85lb	
Safety Rating	CE(EMC+LVD) ETL CAT III 1000V RoHS	

● Feature Difference

**MS2125A****JAW SIZE**
Φ40mm/1.6"**VOLTAGE**
DC 1000V
AC 750V**CURRENT**
DC 1000A
AC 1000A**⎓** **⎓** **Ω****Hz%** **AUTO****Apo** **REL** **▶****MAX** **MIN** **H****Light** **Battery** **Speaker****TRMS** **NCV** **INRUSH****MS2125B****JAW SIZE**
Φ40mm/1.6"**VOLTAGE**
DC 1000V
AC 750V**CURRENT**
DC 1000A
AC 1000A**⎓** **⎓** **Ω****Hz%** **AUTO****Apo** **REL** **▶****MAX** **MIN** **H****Light** **Battery** **Speaker****TRMS** **NCV** **INRUSH****USB**

DIGITAL AC/DC CLAMP METER MS2140A / MS2140B

MS2140A**JAW SIZE**
Φ40mm/1.6"**VOLTAGE**
DC 1000V
AC 1000V**CURRENT**
DC 600A
AC 600A**MAX MIN****NCV****AUTO**CAT II
1000VCAT III
600V**Specifications****MS2140A** **MS2140B**

Specifications	Range	Accuracy	
DC Voltage	600mV/6V/60V/ 600V/1000V	±(0.5%+3)	±(0.5%+3)
AC Voltage	600mV/6V/60V/ 600V/1000V	±(0.8%+3)	±(0.8%+3)
DC Current	60A/600A	±(3.0%+10)	
	600A/1000A		±(3.0%+10)
AC Current	60A/600A	±(1.8%+10)	
	600A/1000A		±(1.8%+10)
Inrush Current	60A/600A	±(10%+60)	
	600A/1000A		±(10%+60)
Resistance	600Ω/6KΩ/60KΩ/600KΩ	±(0.8%+3)	±(0.8%+3)
	6MΩ/60MΩ	±(1.2%+3)	±(1.2%+3)
Capacitance	6nF	±(5.0%+5)	±(5.0%+5)
	60nF/600nF/6μF/60μF/ 600μF/6mF/60mF	±(4.0%+5)	±(4.0%+5)
Frequency	A 60Hz/600Hz/6kHz	±(1.5%+5)	±(1.5%+5)
	V 60Hz/600Hz/6kHz/60kHz	±(1.5%+5)	±(1.5%+5)
	Hz 60Hz/600Hz/6kHz/60kHz/ 600kHz/6MHz/60MHz	±(0.3%+5)	±(0.3%+5)
Duty Cycle	5%~95%	±3.0%	±3.0%
	-40°C~10°C	±(5.0%+1.5°C)	±(5.0%+1.5°C)
Temperature	-40°F~14°F	±(5.0%+3.3°F)	±(5.0%+3.3°F)
	10°C~500°C	±(1.0%+0.8°C)	±(1.0%+0.8°C)
	14°F~932°F	±(1.0%+0.8°F)	±(1.0%+0.8°F)
DC μA Current	200.0μA/2000μA	±(1.0%+5)	±(1.0%+5)
AC μA Current	200.0μA/2000μA	±(1.0%+5)	±(1.0%+5)

MS2140B**JAW SIZE**
Φ40mm/1.6"**VOLTAGE**
DC 1000V
AC 1000V**CURRENT**
DC 1000A
AC 1000A**MAX MIN****NCV****AUTO**

Display	counts	6000	6000
Jaw Opening	Φ40mm/1.6"	●	●
Auto Ranging	Auto & Manual	●	●
APO	Auto Power Off	●	●
NCV	Non-Contact Voltage Detector	●	●
Diode	2.8V	●	●
Continuity Buzzer	<50Ω	●	●
MAX/MIN		●	●
Data Hold		●	●
Inrush Hold		●	●
Display Backlight		●	●
Work Light		●	●
Bar Graph	Segments Bar Graph	●	●
Dual Display		●	●
REL	Relative Measurement	●	●
LBD	Low Battery Display	●	●
K-T	K-Type Thermocouple	●	●
Sampling Time	<250 msec	●	●
General			
Power Supply	3x1.5V AAA Batteries		
Product Size	222mmx86mmx32mm/8.74"×3.38"×1.26"		
Product Weight	350g/0.77lb		
Safety Rating	ETL CAT II 1000V / CAT III 600V RoHS		

DIGITAL AC/DC CLAMP METER WHIT TEMPERATURE

MS2140C**JAW SIZE**
Φ40mm/1.6"**VOLTAGE**
DC 1000V
AC 1000V**CURRENT**
DC 1000A
AC 1000A**MAX MIN****NCV****AUTO****IRT**CAT II
1000VCAT III
600V**Specifications** **MS2140C**

Specifications	Range	Accuracy
DC Voltage	600mV/6V/60V/ 600V/1000V	±(0.5%+3)
AC Voltage	600mV/6V/60V/ 600V/1000V	±(0.8%+3)
DC Current	600A/1000A	±(1.8%+10)
AC Current	600A/1000A	±(2.5%+10)
Inrush Current	600A/1000A	±(10%+60)
Resistance	600Ω/6KΩ/60KΩ/600KΩ	±(0.8%+3)
	6MΩ/60MΩ	±(1.2%+3)
Capacitance	6nF	±(5%+5)
	60nF/600nF/6μF/60μF/ 600μF/6mF/60mF	±(4%+5)
Frequency	A 60Hz/600Hz/6kHz	±(1.5%+5)
	V 60Hz/600Hz/6kHz/60kHz	±(1.5%+5)
	Hz 60Hz/600Hz/6kHz/60kHz/ 600kHz/6MHz/60MHz	±(0.3%+5)
Duty Cycle	5%~95%	±3.0%
Temperature (K-T)	-40°C~10°C	±(5.0%+1.5°C)
	-40°F~-14°F	±(5.0%+3.3°F)
	-10°C~500°C	±(1.0%+0.8°C)
	-14°F~932°F	±(1.0%+0.8°F)
Temperature (IR-T)	-20°C~0°C	±3.5°C
	-4°F~32°F	±6.5°F
	0°C~350°C	±(2.5%+3°C)
	-32°F~662°F	±(2.5%+5°F)
DC μA Current	200.0μA/2000μA	±(1.0%+5)
AC μA Current	200.0μA/2000μA	±(1.0%+5)
Features		
Display	counts	6000
Jaw Opening	Φ40mm/1.6"	●
Auto Ranging	Auto & Manual	●
APO	Auto Power Off	●
NCV	Non-Contact Voltage Detector	●
Diode	2.8V	●
Continuity Buzzer	<50Ω	●
MAX/MIN		●
Data/Inrush Hold		●
Display Backlight		●
Work Light		●
Bar Graph	Segments Bar Graph	●
Dual Display		●
REL	Relative Measurement	●
LBD	Low Battery Display	●
K-T	K-Type Thermocouple	●
IR-T	Infrared Thermometer	●
Sampling Time	300 msec	●
IR D:S	6:1	●
IR Emissivity	Fixed 0.95	●
General		
Power Supply	3x1.5V AAA Batteries	
Product Size	222mmx86mmx32mm/8.74"×3.38"×1.26"	
Product Weight	420g/0.92lb	
Safety Rating	CE ETL CAT II 1000V / CAT III 600V RoHS	

CAT II
1000VCAT III
600V

HIGH SENSITIVITY AC LEAKAGE CLAMP METER MS2006B

MS2006B

JAW SIZE	Φ31mm/1.2"
CURRENT	AC 60A
 V A H	



Specifications

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5) ±(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	2x1.5V AAA Batteries	
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.14"	
Product Weight	110g/0.24lb	
Safety Rating	CAT II 600V RoHS	

MS2006B

Specifications	Range	Accuracy
AC Current	2mA/20mA 60A(<50A) 60A(>50A)	±(2.0%+5) ±(2.0%+5)<

THREE PHASE DIGITAL POWER CLAMP METER

MS2203 / MS2205

MS2203**JAW SIZE**
Φ50mm/2.0"**VOLTAGE**
AC 0.1V~600V**CURRENT**
AC 0.1A~1000A**kVA****kVAr****PF****kWh****Hz****AUTO****Apo****TRMS****MAX****MIN****H****MEM****RS232**EMC
LVD**Specifications****MS2203 MS2205**

Specifications	Range	Accuracy
AC Voltage	100V/300V/600V 80V/180V/400V/600V	±(1.2%+5)
AC Current	40A/100A/400A/1000A 20A/40A/100A/200A/ 450A/1000A	±(2.0%+5) ±(2.0%+5)
Active Power	4kW/10kW/40kW/ 100kW/600kW 30kW/60kW/120kW/ 150kW/300kW/600kW	±(3.0%+5) ±(3.0%+5)
Apparent Power	4kVA/10kVA/40kVA/ 100kVA/600kVA 3kVA/12kVA/30kVA/ 120kVA/150kVA/600kVA	±(3.0%+5) ±(3.0%+5)
Reactive Power	4kVAr/10kVAr/40kVAr/ 100kVAr/600kVAr 3kVAr/12kVAr/30kVAr/ 120kVAr/150kVAr/600kVAr	±(4.0%+5) ±(3.0%+5)
Power Factor	0.3~1	±(2.0%+2) ±(2.0%+2)
Active Energy	1kWh~9999kWh	±(3.0%+2)
Frequency	20Hz~1000Hz	±0.5%
Harmonic Measurement	Harmonic Number :1 Harmonic Number :2-6 Harmonic Number :7-8 Harmonic Number :9-10 Harmonic Number :11-15 Harmonic Number :16-20	±(3.0%+10) ±(3.5%+10) ±(4.5%+10) ±(5.0%+10) ±(7.0%+10) ±(10%+10)

Features

Dual 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	Segments Bar Graph	●	●
MAX/MIN	Max/Min Measurement	●	●
Data Hold		●	●
Display Backlight		●	●
LBD	Low Battery Display	●	●
RS232 Interface	Windows OS	●	●
General			
Power Supply	4x1.5V AA Batteries		
Product Size	300mmx103mmx51mm/11.8"×4.1"×2.0"		
Product Weight	640g/1.4lb		
Safety Rating	CE(EMC+LVD) ETL CAT III 600V RoHS		

● Feature Difference

MS2205**JAW SIZE**
Φ50mm/2.0"**VOLTAGE**
AC 0.1V~600V**CURRENT**
AC 0.01A~1000A**kVA****kVAr****PF****Hz****AUTO****Apo****TRMS****H****MEM****RS232****DIGITAL CLAMP METERS**

SINGLE PHASE HARMONIC POWER CLAMP METER

MS2228

**Specifications****MS2228**

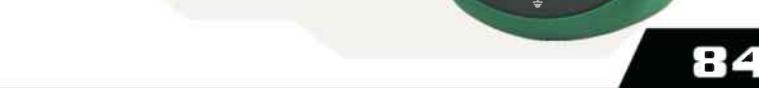
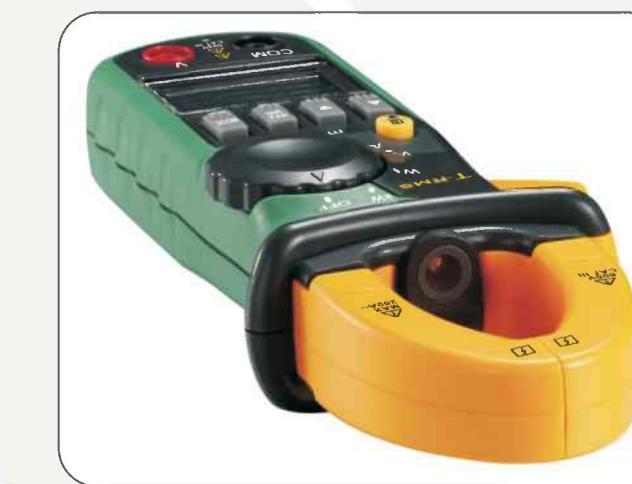
Specifications	Range	Accuracy
AC Voltage(RMS)	10V ~ 600V	±(1.0%+5)
AC Current(RMS)	2mA~3999mA 4A~200A	±(2.0%+5) ±(2.0%+5)
Active Power	0.1W~120kW	±(3.0%+5)
Apparent Power	0.1VA~120kVA	±(3.0%+5)
Reactive Power	0.1VAr~120kVAr	±(3.0%+5)
Power Factor	0.3~1 capacitive 0.3~1 inductive	±(0.02%+2) ±(0.02%+2)
Frequency(Hz)	30Hz~1kHz	±(0.5%+1)
Harmonic Measurement	Harmonic Number: 1 Harmonic Number: 2~6 Harmonic Number: 7~8 Harmonic Number: 9~10 Harmonic Number: 11~15 Harmonic Number: 16~20	±(3.0%+10) ±(3.5%+10) ±(4.5%+10) ±(5.0%+10) ±(7.0%+10) ±(10%+10)

Features

Dual Display	counts	6000
Jaw Opening	Φ26mm/1.0"	●
Auto Ranging	Auto & Manual	●
APO	Auto Power Off	●
MAX/MIN	Max/Min Measurement	●
True RMS	True root mean square	●
Work Light		●
Data Hold		●
Display Backlight		●
LBD	Low Battery Display	●

General

Power Supply	3x1.5V AAA Batteries
Product Size	208mmx78mmx35mm/8.2"×3.1"×1.4"
Product Weight	245g/0.54lb
Safety Rating	ETL CAT III 600V RoHS

**MS2228****JAW SIZE**
Φ26mm/1.0"**VOLTAGE**
AC 10V~600V**CURRENT**
AC 2mA~200A**kVA****kVAr****PF****Hz****AUTO****Apo****MAX****MIN****H****TRMS****NEW**

DIGITAL AC/DC CLAMP METERS

MS2000G / MS2000R

MS2000G**JAW SIZE**
Φ55mm/2.2"**VOLTAGE**
DC 1000V
AC 750V**CURRENT**
AC 2000A**Hz****Hz****H****MIN MAX**CAT II
1000V**Specifications****MS2000G MS2000R**

Specifications	Range	Accuracy
DC Voltage	2V/20V/200V 400mV/4V/40V/400V 1000V	±(0.5%+1) ±(0.8%+1) ±(1.0%+2) ±(1.0%+2)
AC Voltage	200V/750V 4V/40V/400V 750V	±(1.0%+3) ±(1.0%+5) ±(1.2%+5)
DC Current	400A(<600A) 1000A(>600A)	±(2.0%+5) ±(3.0%+5)
	200A 2000A(<600A) 2000A(600A~1000A) 2000A(>1000A)	±(2.0%+5) ±(2.0%+5) ±(3.0%+5) ±(3.0%+15)
AC Current	400A(<600A) 1000A(>600A)	±(2.0%+5) ±(3.0%+5)
Resistance	200Ω 20KΩ/2MΩ 400Ω/4kΩ/40kΩ/400kΩ/4MΩ 40MΩ	±(1.0%+3) ±(1.5%+15) ±(1.5%+5) ±(2.5%+10)
Frequency	2kHz 20kHz 4kHz/40kHz/400kHz	±(2.0%+5) ±(1.5%+5) ±(1.0%+5)
Temperature	0°C~400°C(32°F~752°F) 401°C~750°C(753°F~1382°F)	±(1.0%+3) ±(2.0%+1)

Features

Display	counts	2000	4000
Jaw Opening	Φ55mm/2.2"	●	●
Auto Ranging	Auto & Manual	●	●
APO	Auto Power Off	●	●
True RMS	True root mean square	●	●
REL	Relative Measurement	●	●
MANU	Fixation Range	●	●
MAX/MIN	MAX/MIN	●	●
Diode	2.7V	●	
Continuity Buzzer	<30Ω	●	●
Data Hold		●	●
Display Backlight		●	●
LBD	Low Battery Display	●	●
General			
Power Supply	1x9V/6F22 Battery		
Product Size	282mm×104mm×47mm/11"×4.1"×1.85"		
Product Weight	503g/1.1lb		
Safety Rating	CAT II 1000V RoHS		

● Feature Difference

MS2000R**JAW SIZE**
Φ55mm/2.2"**VOLTAGE**
DC 1000V
AC 750V**CURRENT**
DC 1000A
AC 1000A**Hz****Hz****H****MIN MAX**

DIGITAL CLAMP TRANSDUCER

MS3300 / MS3302

MS3300**JAW SIZE**
Φ55mm/2.2"**CURRENT**
DC 1000A
AC 1000A**Hz****Hz****H****MIN MAX**CAT II
600V**Specifications****MS3300**

Specifications	Range	Accuracy
DC Current	1000A	±(3.0%+5)
AC Current	1000A (TRMS)	±(3.0%+5)
Output	1A DC 1A AC	1mV DC 1mV DC
Features		
Jaw Opening		Φ55mm/2.2"
True RMS	True Root Mean Square	●
DCA ZERO		●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	256mm×104mm×47mm/9.3"×3.86"×1.9"	
Product Weight	520g/1.1lb	
Safety Rating	CAT II 600V	

CAT II
600V**Specifications****MS3302**

Specifications	Range	Accuracy
AC Current	0.1A~400A	±(2.0%+5)
Output	10mV/A 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	
Safety Rating	CAT II 600V	

NON-CONTACT INFRARED THERMOMETER MS6518 / MS6520H

EMC CE RoHS

MS6518

TEMPERATURE
30°C~42°C
86°F~108°F

BODY °F/°C MEM

H ☀ + -



Specifications

MS6518

Specifications	Range	Accuracy
Temperature(Body)	32~42°C/89~108°F	±0.4%
Resolution		0.1°C/0.2°F
Repeatability		±0.1°C
Emissivity		0.95
Optical Resolution		10 : 1
Spectral Response	um	8-14
Features		
MAX Distance	15cm	●
Laser	<1mW/630-670nm	●
°C / °F Selection		●
Response Time	1 second	●
Relative Humidity	10%~90%	●
Data Logging	10 groups	●
Laser Target Pointer		●
Reading Hold		●
MEM		●
Display Backlight		●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	142×92×47mm/5.6×3.6×1.85"	
Product Weight	135g/0.3lb	
Safety Rating	CE(EMC) RoHS	

EMC CE cETLus Intertek RoHS

MS6520H

TEMPERATURE
-20°C~300°C
-4°F~572°F

°F/C MIN MAX AVG

H ☀ + -



Specifications

MS6520H

Specifications	Range	Accuracy
Temperature	-20~0°C/-4~32°F	±3°C
	0~300°C/32~572°F	±(2.0%+2°C)
Resolution		0.1°C/0.2°F
Repeatability		1°C
Emissivity		0.95
Optical Resolution		10 : 1
Spectral Response	um	8-14
Features		
MAX Distance	15cm	●
Laser	<1mW/630-670nm	●
°C / °F Selection		●
Response Time	1 second	●
Relative Humidity	10%~90%	●
MAX / MIN / AVG		●
Laser Target Pointer		●
Reading Hold		●
MEM		●
Display Backlight		●
LBD	Low Battery Display	●
General		
Power Supply	2x1.5V AAA Batteries	
Product Size	148×90×50mm/5.7×3.5×2.1"	
Product Weight	160g/0.35lb	
Safety Rating	CE(EMC) ETL RoHS	

NON-CONTACT INFRARED THERMOMETER WITH NCV/WORKLIGHT

EMC LVD CE cETLus Intertek CAT II 1000V CAT III 600V RoHS

Specifications

MS6580B

Specifications	Range	Accuracy
Temperature	-20°C~0°C	±3°C
	4°F~32°F	±5.5°F
	0.1°C~330°C	±(1.5%+2)
	32°F~626°F	±(1.5%+3)
Resolution		0.1°C/0.2°F
Repeatability		±0.1°C
Emissivity		0.95
Optical Resolution		4 : 1
AC Voltage	(50Hz~60Hz)	12~1000V
Spectral Response	um	8-14
Features		
MAX Altitude	2000m	●
NCV	Non-Contact Voltage Detector	●
4 Levels	of Sensitivity (NCV)	●
IRT	Infrared Temperature	●
Laser	<1mW/630-670nm	●
°C / °F Selection		●
Response Time	0.5second	●
Relative Humidity	10%~90%	●
Laser Pointer		●
Reading Hold		●
Work Light		●
Display Backlight		●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	152×31×31mm/6×1.22×1.22"	
Product Weight	220g/0.44lb	
Safety Rating	CE(EMC) ETL CAT II 1000V / CAT III 600V FDA RoHS	
Model Number	MS6580B	
Order Ref. Number	MS6580B	MS6580BF
The Default Temperature	(°C) Centigrade	(°F) Fahrenheit



INFRARED THERMOMETER



AC VOLTAGE DETECTING



WORK LIGHT

MS6580B

IRT TEMP
-20°C~330°C
32°F~626°F

VOLTAGE
AC 1000V

~V °F/C NCV

H ☀ + -

IRT NCV

NCV

IRT

NCV

NON-CONTACT INFRARED THERMOMETER

MS6522A / MS6522B / MS6522C



EMC CE cETL US Intertek RoHS

Specifications

Specifications	Range	MS6522A	MS6522B	MS6522C	Accuracy
Temperature (Body)	-20~0°C/-4~32°F	±3%			
	0~300°C/32~572°F	±(1.5%+2)			
	-20~0°C/-4~32°F		±3%		
	0~500°C/32~932°F		±(1.5%+2)		
	0~100°C/32~212°F			±(1.5%+2)	
	32~42°C/86~108°F			±5%	
Resolution		0.1°C/0.2°F	0.1°C/0.2°F	0.1°C/0.2°F	
Repeatability		±0.1°C	±0.1°C	±0.1°C	
Emissivity		0.95	0.95	0.95	
Optical Resolution		10 : 1	10 : 1	10 : 1	
Spectral Response	um	8-14	8-14	8-14	
Features					
Distance	5~15m	●	●	●	
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	142mm×92mm×47mm/5.6"×3.6"×1.85"				
Product Weight	135g/0.3lb				
Safety Rating	CE(EMC) ETL FDA RoHS				
Model Number	MS6522A	MS6522B	MS6522C		
Order Ref. Number	MS6522A	MS6522AF	MS6522B	MS6522BF	MS6522C
The Default Temperature	(°C) Centigrade	(°F) Fahrenheit	(°C) Centigrade	(°F) Fahrenheit	(°C) Centigrade

NON-CONTACT INFRARED THERMOMETER

MS6531A / MS6531B / MS6531C

EMC CE cETL US Intertek RoHS

Specifications

Specifications	Range	MS6531A	MS6531B	MS6531C	Accuracy
IRT Temperature	-60°C~500°C	±(1.5%+2)			
	-76°F~932°F	±(1.5%+4)			
	-40°C~800°C		±(1.5%+2)	±(1.5%+2)	
	-40°F~1472°F		±(1.5%+4)	±(1.5%+4)	
K-TYPE Temperature	-40°C~1090°C	±(1.5%+3)			±(1.5%+3)
	-40°F~1976°F	±(1.5%+5.4)			±(1.5%+5.4)
Resolution		0.1°C/0.2°F	0.1°C/0.2°F	0.1°C/0.2°F	
Repeatability		±0.1°C	±0.1°C	±0.1°C	
Emissivity		0.10~1.00	0.10~1.00	0.10~1.00	
Optical Resolution		12 : 1	12 : 1	12 : 1	
Data Logging					20
Features					
Color Display	Auto Power Off	●	●	●	
Distance	300m	●	●	●	
Laser	<1mW/630-670nm	●	●	●	
Response Time	0.5 second	●	●	●	
Relative Humidity	10%~90%	●	●	●	
Laser Target Pointer	°C / °F Selection	●	●	●	
High/Low	Alarm Setting	●	●	●	
Reading Hold	Lock selection	●	●	●	
Display Backlight	MAX/MIN/AVG/DIF	●	●	●	
Work Light		●			
LBD	Low Battery Display	●	●	●	
General					
Power Supply	1x9V 6F22 Battery				
Product Size	176mm×132mm×49mm/6.9"×5.2"×1.9"				
Product Weight	223g/0.5lb				
Safety Rating	CE(EMC) ETL FDA RoHS				
Model Number	MS6531A	MS6531B	MS6531C		
Order Ref. Number	MS6531A	MS6531AF	MS6531B	MS6531BF	MS6531C
The Default Temperature	(°C) Centigrade	(°F) Fahrenheit	(°C) Centigrade	(°F) Fahrenheit	(°C) Centigrade

**MS6531A**

IRT TEMP
-60°C~500°C
-76°F~932°F

K-T TEMP
-60°C~1090°C
-76°F~1994°F

°F/C MAX MIN DIF AVG

Work Light Display Backlight LBD

MS6531B

IRT TEMP
-40°C~800°C
-40°F~1472°F

K-T TEMP
-40°C~1090°C
-40°F~1976°F

°F/C MAX MIN DIF AVG

Work Light Display Backlight LBD

MS6531C

IRT TEMP
-40°C~800°C
-40°F~1472°F

K-T TEMP
-40°C~1090°C
-40°F~1976°F

°F/C MAX MIN DIF AVG

LOG Work Light Display Backlight LBD

NON-CONTACT INFRARED THERMOMETER

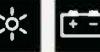
MS6532 / MS6532A / MS6532B



MS6532

IRT TEMP
-20°C~537°C
-4°F~999°F°F/C H
MAX MIN AVG DIF

MS6532A

IRT TEMP
-20°C~850°C
-4°F~1562°F°F/C H
MAX MIN AVG DIF

MS6532B

IRT TEMP
-20°C~320°C
-4°F~608°F°F/C H
MAX MIN AVG DIF

Specifications

Specifications	Range	MS6532	MS6532A	MS6532B	Accuracy
IRT Temperature	-20°C~537°C -4°F~999°F	±(1.5%+2)			
	-4°F~999°F	±(1.5%+4)			
	-20°C~850°C		±(1.5%+2)		
	-4°F~1562°F		±(1.5%+4)		
	-20°C~320°C			±(1.5%+2)	
	-4°F~608°F			±(1.5%+4)	
Resolution		0.1°C/0.2°F	0.1°C/0.2°F	0.1°C/0.2°F	
Repeatability		±0.1°C	±0.1°C	±0.1°C	
Emissivity		0.95	0.95	0.95	
Optical Resolution		12 : 1	12 : 1	12 : 1	
Features					
Distance	10m	●	●	●	
Laser	<1mW/630-670nm	●	●	●	
°C / °F Selection		●	●	●	
Response Time	0.5 second	●	●	●	
Relative Humidity	10%~90%	●	●	●	
Laser Target Pointer		●	●	●	
APO	Auto Power Off	●	●	●	
Lock selection		●	●	●	
Reading Hold		●	●	●	
MAX/MIN/AVG/DIF		●	●	●	
Display Backlight		●	●	●	
LBD	Low Battery Display	●	●	●	
General					
Power Supply	1x9V 6F22 Battery				
Product Size	190mm×125mm×55mm/7.48"×4.9"×2.2"				
Product Weight	262g/0.57lb				
Safety Rating	CE(EMC) ETL FDA RoHS				
Model Number	MS6532	MS6532A	MS6532B		
Order Ref. Number	MS6532	MS6532F	MS6532A	MS6532AF	MS6532B
The Default Temperature	(°C) Centigrade	(°F) Fahrenheit	(°C) Centigrade	(°F) Fahrenheit	(°C) Centigrade
	Fahrenheit				Fahrenheit



NON-CONTACT INFRARED THERMOMETER

MS6530T / MS6541



Specifications

Specifications	Range	MS6530T	MS6541	Accuracy
IRT Temperature	-20~350°C/-4~662°F	±(1.5%+4)		
	-50°C~0°C		±(1.5%+4)	
	0°C~400°C		±(1.5%+2)	
	400°C~760°C		±(2.0%+2)	
	-58°F~32°F		±(1.5%+7.2)	
	32°F~752°F		±(1.5%+3.6)	
	752°F~1400°F		±(2.0%+3.6)	
K-T Temperature	-50°C~300°C		±(1.5%+3)	
	-58°F~572°F		±(1.5%+5.4)	
Ambient TEMP	-10~40°C/14~104°F	±(1.0%+2)		
Resolution		0.1°C/0.1°F	0.1°C/0.1°F	
Repeatability		±0.1°C	±0.1°C	
Emissivity		0.95/0.85/0.75	0.10~1.0	
Optical Resolution		12 : 1	30 : 1	
Spectral Response		8~14μm	8~14μm	
Features				
Thermal Bridge	green, red, yellow LED	●		
Mold Warning	green, red, yellow LED	●		
Distance	10m	●	●	
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	1x9V 6F22 Battery	●	●	
Product Size	194×162×56mm/7.6×6.4×2.2"	●		
	176×132×49mm/6.9×5.2×1.9"		●	
Product Weight	280g/0.6lb	223g/0.5lb		
Safety Rating	CE(EMC) ETL FDA RoHS			
Model Number	MS6541	MS6530T		
Order Ref. Number	MS6541	MS6541F	MS6530T	MS6530TF
The Default Temperature	(°C) Centigrade	(°F) Fahrenheit	(°C) Centigrade	(°F) Fahrenheit



MS6530T

IRT TEMP
-20°C~350°C
-4°F~662°F

°F/C H MEM



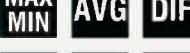
LED



MS6541

IRT TEMP
-50°C~760°C
-58°F~1400°FK-T TEMP
-50°C~300°C
-58°F~572°F

°F/C H MEM



MAX MIN AVG DIF



H LED

NON-CONTACT INFRARED THERMOMETER MS6542A / MS6542B

MS6542A**IRT TEMP**
-32°C~850°C
-25°F~1562°F

°F/C MAX MIN AVG
H DIF
AVG + -



NEW

EMC Intertek

Specifications

Specifications	Range	Accuracy	MS6542A	MS6542B
IRT Temperature	-32~15°C -25~59°F	±3.0%	±3.0%	±3.0%
	16~50°C 60~122°F	±(1.5%+2)	±(1.5%+2)	±(1.5%+2)
	51~510°C 123~950°F	±(1.5%+1)	±(1.5%+1)	±(1.5%+1)
	511~850°C 951~1562°F	±1.5%		
	511~1050°C 951~1922°F			±1.5%
Resolution		0.1°C/0.1°F	0.1°C/0.1°F	
Repeatability		±0.5°C	±0.5°C	
Emissivity		0.10~1.00	0.10~1.00	
Optical Resolution		30:1	30:1	
Spectral Response	um	8-14	8-14	
Features				
Distance	10m	●	●	
Laser	<1mW/630-670nm	●	●	
°C / °F Selection		●	●	
Response Time	500 mSec	●	●	
Relative Humidity	10%~90%	●	●	
Laser Target Pointer		●	●	
Reading Hold		●	●	
Data Logging	100 groups	●	●	
MAX/MIN		●	●	
AVG/DIF		●	●	
Display Backlight		●	●	
LBD	Low Battery Display	●	●	
General				
Power Supply	1x9V 6F22 Battery			
Product Size	190mm×140mm×56mm/7.48"×5.5"×2.2"			
Product Weight	500g/1.1lb			
Safety Rating	CE(EMC) ETL FDA RoHS			
Model Number	MS6542A	MS6542B		
Order Ref. Number	MS6542A	MS6542AF	MS6542B	MS6542BF
The Default Temperature	(°C) Centigrade	(°F) Fahrenheit	(°C) Centigrade	(°F) Fahrenheit

MS6542B**IRT TEMP**
-32°C~1050°C
-25°F~1922°F

°F/C MAX MIN AVG
H DIF
AVG + -



NEW

NON-CONTACT INFRARED THERMOMETER WITH USB MS6552A / MS6552B

MS6552A**IRT TEMP**
-32°C~1200°C
-25°F~2192°F

°F/C MAX MIN AVG
H DIF
AVG + -



NEW

EMC Intertek

Specifications

Specifications	Range	Accuracy	MS6552A	MS6552B
IRT Temperature	-32~15°C -25~59°F	±3.0%	±3.0%	±3.0%
	16~50°C 60~122°F	±(1.5%+2)	±(1.5%+2)	±(1.5%+2)
	51~510°C 123~950°F	±(1.5%+1)	±(1.5%+1)	±(1.5%+1)
	511~1200°C 951~2192°F	±1.5%		
	511~1650°C 951~3002°F			±1.5%
K-Type Temperature	-40~1370°C -40~2498°F	±(1.5%+2)	±(1.5%+2)	±(1.5%+2)
Resolution		0.1°C/0.1°F	0.1°C/0.1°F	
Repeatability		±0.5°C	±0.5°C	
Emissivity		0.10~1.00	0.10~1.00	0.10~1.00
Optical Resolution		30:1	30:1	
Spectral Response	um	8-14	8-14	
Features				
Distance	10m	●	●	
Laser	<1mW/630-670nm	●	●	
°C / °F Selection		●	●	
Response Time	500 mSec	●	●	
Relative Humidity	10%~90%	●	●	
Laser Target Pointer		●	●	
Reading Hold		●	●	
Data Logging	100 groups	●	●	
MAX/MIN		●	●	
AVG/DIF		●	●	
Display Backlight		●	●	
LBD	Low Battery Display	●	●	
General				
Power Supply	1x9V 6F22 Battery			
Product Size	190mm×140mm×56mm/7.48"×5.5"×2.2"			
Product Weight	500g/1.1lb			
Safety Rating	CE(EMC) ETL FDA RoHS			
Model Number	MS6552A	MS6552B		
Order Ref. Number	MS6552A	MS6552AF	MS6552B	MS6552BF
The Default Temperature	(°C) Centigrade	(°F) Fahrenheit	(°C) Centigrade	(°F) Fahrenheit

MS6552B**IRT TEMP**
-32°C~1650°C
-25°F~3002°F

°F/C MAX MIN AVG
H DIF
AVG + -



NEW

MS6552A**IRT TEMP**
-40°C~1370°C
-40°F~2498°F

°F/C MAX MIN AVG
H DIF
AVG + -

USB

TEMPERATURE HUMIDITY METER

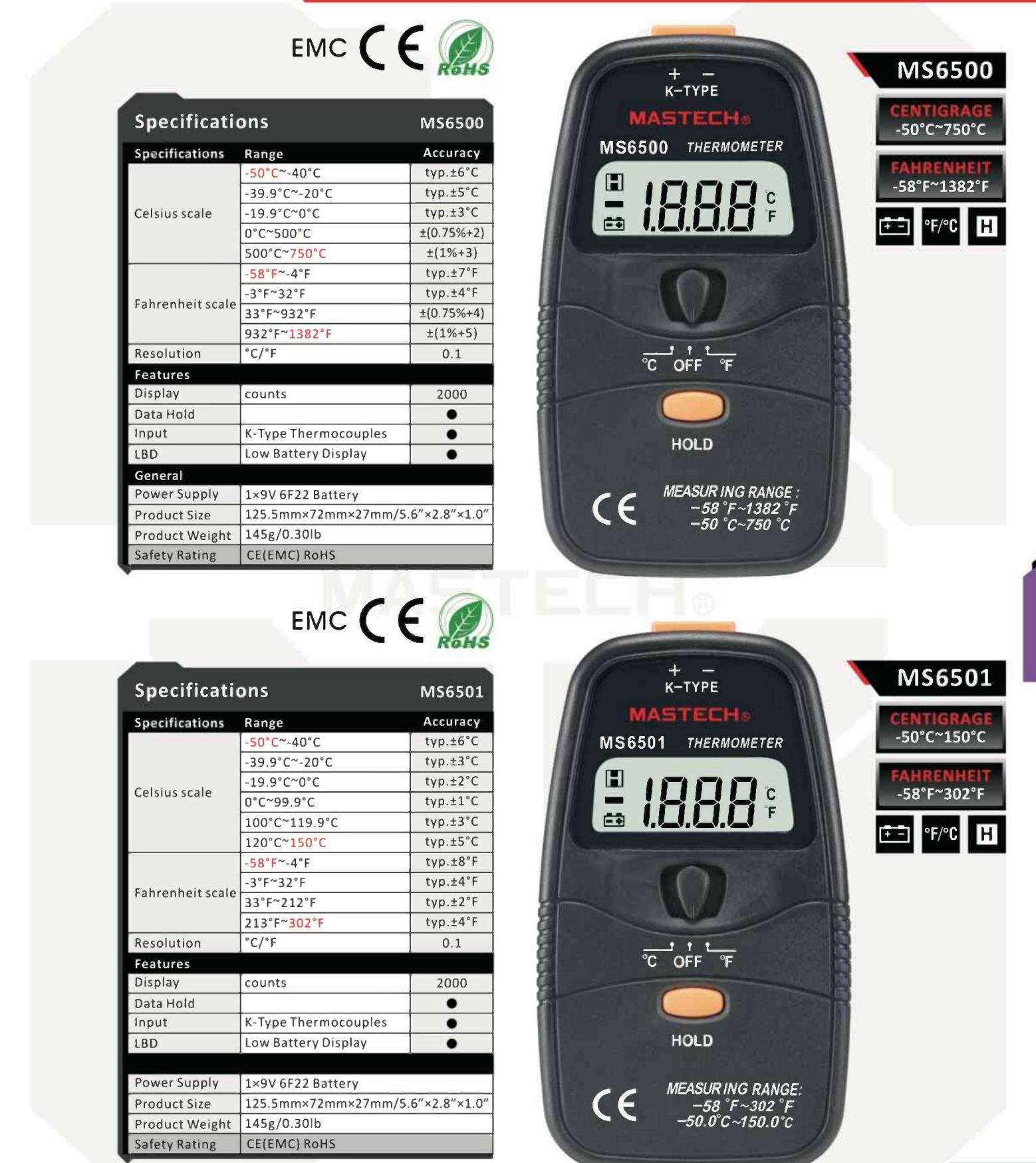
MS6508



DIGITAL THERMOMETERS

DIGITAL THERMOMETER

MS6500 / MS6501



DIGITAL THERMOMETER MS6511 / MS6512

**MS6511****TYPE**
K, J, T, E**CHANNEL**
TC TYPE

°F/C Apo MAX MIN

AVG H

◆ Top Figure

**Specifications****MS6511**

Specifications	Range	Accuracy
Injection Method		Single
Channel	TC TYPE	●
Thermocouple Type	K -200~1372°C/-328~2501°F J -210~1200°C/-346~2192°F T -250~400°C/-418~752°F E -150~1000°C/-238~1832°F R 0~1767°C/32~3212°F S 0~1767°C/32~3212°F N -200~1300°C/-328~2372°F	±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+1) ±(0.2%+1) ±(0.2%+0.5)
Resolution	<1000°C(R-type and S-type) >1000°C	0.1°C/F/K 1°C/F/K
Features		
APO	Auto Power Off	●
Data Hold		●
MAX/MIN/AVG		●
MEM	Save current data	●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	190mm×89mm×42mm/7.5"×3.5"×1.7"	
Product Weight	350g/0.8lb	
Safety Rating	RoHS	

MS6512**TYPE**
K, J, T, E**CHANNEL**
T1/T2/T1-T2

°F/C Apo MAX MIN

AVG H

◆ Top Figure

**Specifications****MS6512**

Specifications	Range	Accuracy
Injection Method		Dual
Channel	T1/T2/T1-T2	●
Thermocouple Type	K -200~1372°C/-328~2501°F J -210~1200°C/-346~2192°F T -250~400°C/-418~752°F E -150~1000°C/-238~1832°F	±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+0.5)
Resolution	<1000°C(R-type and S-type) >1000°C	0.1°C/F/K 1°C/F/K
Features		
APO	Auto Power Off	●
Data Hold		●
MAX/MIN/AVG		●
MEM	Save current data	●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	190mm×89mm×42mm/7.5"×3.5"×1.7"	
Product Weight	350g/0.8lb	
Safety Rating	RoHS	

DIGITAL THERMOMETER MS6513 / MS6513A

**MS6513****TYPE**
K, J, T, E, R, S, N**CHANNEL**
TC TYPE

°F/C Apo MAX MIN

AVG H

◆ Top Figure

**Specifications****MS6513**

Specifications	Range	Accuracy
Injection Method		Single
Channel	TC TYPE	●
Thermocouple Type	K -200~1372°C/-328~2501°F J -210~1200°C/-346~2192°F T -250~400°C/-418~752°F E -150~1000°C/-238~1832°F R 0~1767°C/32~3212°F S 0~1767°C/32~3212°F N -200~1300°C/-328~2372°F	±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+1) ±(0.2%+1) ±(0.2%+0.5)
Resolution	<1000°C(R-type and S-type) >1000°C	0.1°C/F/K 1°C/F/K
Features		
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	1x9V 6F22 Battery	
Product Size	190mm×89mm×42mm/7.5"×3.5"×1.7"	
Product Weight	350g/0.8lb	
Safety Rating	RoHS	

**Specifications****MS6513A**

Specifications	Range	Accuracy
Injection Method		Single
Channel	TC TYPE	●
Thermocouple Type	K -200~1372°C/-328~2501°F J -210~1200°C/-346~2192°F T -250~400°C/-418~752°F E -150~1000°C/-238~1832°F R 0~1767°C/32~3212°F S 0~1767°C/32~3212°F N -200~1300°C/-328~2372°F	±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+0.5) ±(0.2%+1) ±(0.2%+1) ±(0.2%+0.5)
Resolution	<1000°C(R-type and S-type) >1000°C	0.1°C/F/K 1°C/F/K
Features		
APO	Auto Power Off	●
SD Card	4G~32G	●
Data Hold		●
MAX/MIN/AVG		●
MEM	Save current data	●
USB Interface		●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	190mm×89mm×42mm/7.5"×3.5"×1.7"	
Product Weight	350g/0.8lb	
Safety Rating	RoHS	

◆ Top Figure

**MS6513A****TYPE**
K, J, T, E, R, S, N**CHANNEL**
TC TYPE

°F/C Apo MAX MIN

AVG H

◆ Top Figure

DIGITAL THERMOMETER

MS6514 / MS6514A



MS6514

TYPE
K, J, T, E, R, S, NCHANNEL
T1/T2/T1-T2

°F/C Apo MAX MIN

USB AVG H



◆ Top Figure



Specifications

MS6514

Specifications	Range	Accuracy
Injection Method		Dual
Channel	T1/T2/T1-T2	●
Thermocouple Type	K -200~1372°C/-328~2501°F	±(0.2%+0.5)
	J -210~1200°C/-346~2192°F	±(0.2%+0.5)
	T -250~400°C/-418~752°F	±(0.2%+0.5)
	E -150~1000°C/-238~1832°F	±(0.2%+0.5)
	R 0~1767°C/32~3212°F	±(0.2%+1)
	S 0~1767°C/32~3212°F	±(0.2%+1)
	N -200~1300°C/-328~2372°F	±(0.2%+0.5)
Resolution	<1000°C(R-type and S-type)	0.1°C/F/K
	>1000°C	1°C/F/K
Features		
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	1x9V 6F22 Battery	
Product Size	190mm×89mm×42mm/7.5"×3.5"×1.7"	
Product Weight	350g/0.8lb	
Safety Rating	RoHS	

MS6514A

TYPE
K, J, T, E, R, S, NCHANNEL
T1/T2/T1-T2

°F/C Apo MAX MIN

USB AVG H



◆ Top Figure



Specifications

MS6514A

Specifications	Range	Accuracy
Injection Method		Dual
Channel	T1/T2/T1-T2	●
Thermocouple Type	K -200~1372°C/-328~2501°F	±(0.2%+0.5)
	J -210~1200°C/-346~2192°F	±(0.2%+0.5)
	T -250~400°C/-418~752°F	±(0.2%+0.5)
	E -150~1000°C/-238~1832°F	±(0.2%+0.5)
	R 0~1767°C/32~3212°F	±(0.2%+1)
	S 0~1767°C/32~3212°F	±(0.2%+1)
	N -200~1300°C/-328~2372°F	±(0.2%+0.5)
Resolution	<1000°C(R-type and S-type)	0.1°C/F/K
	>1000°C	1°C/F/K
Features		
APO	Auto Power Off	●
SD Card	4G~32G	●
Data Hold		●
MAX/MIN/AVG		●
MEM	Save current data	●
USB Interface		●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	190mm×89mm×42mm/7.5"×3.5"×1.7"	
Product Weight	350g/0.8lb	
Safety Rating	RoHS	

DIGITAL THERMOMETERS

DIGITAL THERMO-HYGROMETER

MS6503 / MS6505



MS6503

TEMPERATURE
-20°C~60°C
-4°F~140°FCHANNEL
T1/T2

°F/C Apo H

RS 232 MAX MIN



◆ Top Figure



Specifications

MS6503

Specifications	Range	Accuracy
Temperature	-20°C~60°C	±0.7°C
	-4°F~140°F	±1.4°F
Resolution	Humidity	0.1%RH
	Temperature	0.1°C/F
Response Time	Humidity	75 Sec
	Temperature	40 Sec
Features		
Display	4 Digital Liquid Crystal Display	2000
Channel	T1/T2	●
APO	Auto Power Off	●
Humidity	0%~100%RH	●
MAX/MIN		●
REL	Relative Measurement	●
Data Hold		●
Interface	RS-232	●
Display Backlight		●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	183mm×74mm×42mm/7.3"×2.9"×1.6"	
Product Weight	330g/0.7lb	
Safety Rating	RoHS	



Specifications

MS6505

Specifications	Range	Accuracy
Temperature	-20°C~60°C	±0.7°C
	-4°F~140°F	±1.4°F
Resolution	Humidity	0.1%RH
	Temperature	0.1°C/F
Response Time	Humidity	75 Sec
	Temperature	40 Sec
Features		
Display	4 Digital Liquid Crystal Display	2000
Channel	T1/T2/T1-T2	●
APO	Auto Power Off	●
Humidity	0%~100%RH	●
MAX/MIN		●
REL	Relative Measurement	●
Clock		●
Datalogger		●
Data Hold		●
Interface	RS-232	●
Display Backlight		●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	183mm×74mm×42mm/7.3"×2.9"×1.6"	
Product Weight	330g/0.7lb	
Safety Rating	RoHS	

SOCKET TESTER

MS6860B / MS6860C / MS6860D / MS6860E

MS6860B

VOLTAGE
AC 110V

LED

EMC
LVDCAT.II
600V

Specifications

MS6860B MS6860C MS6860D MS6860E

Specifications	MS6860B	MS6860C	MS6860D	MS6860E
Voltage Range	110V	220V	230V	230V
LED	Correct			
Indicate Condition of the Socket's Wiring:	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			
Order Ref. Number	MS6860BE08	MS6860CS	MS6860DC15	MS6860EC15
Safety Rating	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V

MS6860C

VOLTAGE
AC 220V

LED



Specifications

MS6860B MS6860C MS6860D MS6860E

Specifications	MS6860B	MS6860C	MS6860D	MS6860E
Voltage Range	110V	220V	230V	230V
LED	Correct			
Indicate Condition of the Socket's Wiring:	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			
Order Ref. Number	MS6860BE08	MS6860CS	MS6860DC15	MS6860EC15
Safety Rating	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V

MS6860D

VOLTAGE
AC 230V

LED



Specifications

MS6860B MS6860C MS6860D MS6860E

Specifications	MS6860B	MS6860C	MS6860D	MS6860E
Voltage Range	110V	220V	230V	230V
LED	Correct			
Indicate Condition of the Socket's Wiring:	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			
Order Ref. Number	MS6860BE08	MS6860CS	MS6860DC15	MS6860EC15
Safety Rating	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V

MS6860E

VOLTAGE
AC 230V

LED



Specifications

MS6860B MS6860C MS6860D MS6860E

Specifications	MS6860B	MS6860C	MS6860D	MS6860E
Voltage Range	110V	220V	230V	230V
LED	Correct			
Indicate Condition of the Socket's Wiring:	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			
Order Ref. Number	MS6860BE08	MS6860CS	MS6860DC15	MS6860EC15
Safety Rating	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V

3 WIRE / GFCI OUTLET TESTER

MS102 / MS112



Specifications

MS102

Specifications	Range
AC Voltage	125V
Operating Temperature	32~104°F (0~40°C)
Operating Humidity	<80% relative humidity
GFCI	●
Indicator	Fault
○ ○ ○	Open Ground
○ ○ ○ ○	Open Neutral
○ ○ ○ ○ ○	Open Hot
○ ○ ○ ○ ○ ○	Hot / Ground Reverse
○ ○ ○ ○ ○ ○ ○	Hot and neutral contacts reversed
○ ○ ○ ○ ○ ○ ○ ○	Receptacle is wired correctly
General	
Product Size	82x42x32mm/3.2×1.65×1.26"
Product Weight	45g/0.1lb
Safety Rating	ETL CAT II 125V RoHS



MS102

3 WIRE/GFCI
AC 125V

Specifications

MS112

Specifications	Range
AC Voltage	125V
Operating Temperature	32~104°F (0~40°C)
Operating Humidity	<80% relative humidity
Indicator	Fault
○ ○ ○	Open Ground
○ ○ ○ ○	Open Neutral
○ ○ ○ ○ ○	Open Hot
○ ○ ○ ○ ○ ○	Hot / Ground Reverse
○ ○ ○ ○ ○ ○ ○	Hot and neutral contacts reversed
○ ○ ○ ○ ○ ○ ○ ○	Receptacle is wired correctly
General	
Product Size	82x42x32mm/3.2×1.65×1.26"
Product Weight	45g/0.1lb
Safety Rating	ETL CAT II 125V RoHS



MS112

3 WIRE
AC 125V

CIRCUIT BREAKER FINDER

MS5902RTB / RTC / RTD / RTE / RTF

MS5902TB**VOLTAGE**
AC 110V**MS5902TC****VOLTAGE**
AC 220V**MS5902TD****VOLTAGE**
AC 230V**MS5902TE****VOLTAGE**
AC 230V**MS5902TF****VOLTAGE**
AC 125V**Specifications****MS5902TB**

Specifications	B	C	D	E	F
AC Voltage Range	110V	220V	230V	230V	125V
GFCI					●
Socket Tests	●	●	●	●	●

MS5902R+MS5902T Quickly and Easily Identify if Individual Branch Circuits Work with MS5902T without Disrupting Power.

MS5902T (Socket Tester Mode) Correct Missing earth Live-earth reverse Live-neutral reverse Missing neutral

LED Indicate Condition of the Socket's Wiring:

MSS5902R Work Light at the Head of MS5902R Points to the Target Area. Low Battery Indication Buzzer and LED instructions

Feature Difference
EMC LVD
Specifications **MS5902RT****General**

Power Supply	1x9V 6F22 Battery
Product Size	MS5902R 198x40x50mm 7.8"x1.57"x1.97" MS5902TB 71x64x55mm 2.8"x2.5"x2.16" MS5902TC 82x42x32mm 3.2"x1.65"x1.26" MS5902TD 126g/0.28lb MS5902TE 60g/0.13lb MS5902TF 35g/0.1lb
Product Weight	MS5902R MS5902TB MS5902TC MS5902TD MS5902TE MS5902TF
Safety Rating	MS5902R CE(EMC+LVD) CAT.II 600V RoHS



CIRCUIT BREAKER FINDER WITH NCV

MS5905RTA / RTB / RTC / RTD / RTE

Specifications**MS5905RT**

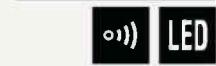
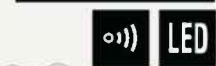
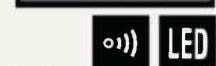
Specifications	A	B	C	D	E
AC Voltage Range	125V	125V	220V	230V	230V
GFCI					●

MS5905R+MS5905T Quickly and Easily Identify if Individual Branch Circuits Work with MS5905T without Disrupting Power.

MS5905T (Socket Tester Mode) Correct Missing earth Live-earth reverse Live-neutral reverse Missing neutral

MS5905R Built-in Non-Contact Voltage Detector(NCV) Voltage Range: AC90V~AC600V Frequency: 50Hz~60Hz Detecting Distance: <30mm

MS5905R Buzzer and LED instructions

Feature Difference**MS5905TA****VOLTAGE**
AC 125V**MS5905TB****VOLTAGE**
AC 125V**MS5905TC****VOLTAGE**
AC 220V**MS5905TD****VOLTAGE**
AC 230V**MS5905TE****VOLTAGE**
AC 230V
EMC LVD
Specifications **MS5905RT****General**

Power Supply	1x9V 6F22 Battery
Product Size	MS5905R 177mmx46mmx31mm 6.97"x1.81"x1.22" MS5905TA 82mmx42mmx32mm 3.2"x1.65"x1.26" MS5905TC 71mmx64mmx55mm 2.8"x2.5"x2.16" MS5905TD 130g/0.29lb MS5905TE 35g/0.1lb
Product Weight	MS5905R MS5905TA MS5905TC MS5905TD MS5905TE
Safety Rating	MS5905R CE(EMC+LVD) CAT.II 600V RoHS

MASTECH®
MS5905R
Circuit Breaker Finder

600V CAT II RECEIVER



MOTOR & PHASE ROTATION INDICATOR MS5900 / MS5901

MS5900**VOLTAGE**
AC 120~400V**FREQUENCY**
2~400Hz**~ V Hz LED****Specifications****MS5900**

Specifications	Range	
Nominal Voltage	1V~400V AC	●
Rotary Direction		
Nominal Voltage	120V~400V AC	●
Phase Indication		
Frequency	2Hz~400Hz	●
Test Currents (In per phase)	Less than 3.5 mA	●
Current Consumption	<3.5mA	●
Features		
Operating TEMP	0°C~40°C	●
Operating Altitude	2000m	●
Pollution Degree	2	●
Type of protection	IP 40	●
Humidity	15%~80%	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	128mmx70mmx30mm/5" x 2.75" x 1.18"	
Product Weight	168g/0.37lb	
Safety Rating	CAT III 600V RoHS	

MS5901**VOLTAGE**
AC 120~400V**FREQUENCY**
2~400Hz**~ V Hz LED****EMC LVD****CAT III 600V****RoHS****Specifications****MS5901**

Specifications	Range	
Nominal Voltage	1V~400V AC	●
Rotary Direction		
Nominal Voltage	120V~400V AC	●
Phase Indication		
Frequency	2Hz~400Hz	●
Test Currents (In per phase)	Less than 3.5 mA	●
Current Consumption	<3.5mA	●
Features		
Even with Test Leads	3	●
Operating TEMP	0°C~40°C	●
Operating Altitude	2000m	●
Pollution Degree	2	●
Type of protection	IP 40	●
Humidity	15%~80%	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	128mmx70mmx30mm/5" x 2.75" x 1.18"	
Product Weight	203g/0.45lb	
Order Ref. Number	MS5901E08	MS5901C15L
	CAT III 600V	CAT III 600V
Safety Rating	ETL	

CIRCUIT ANALYZER MS5908A / MS5908C

Specifications**MS5908A****MS5908C**

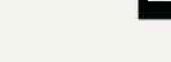
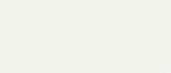
Specifications	Accuracy	Range
Line Voltage	±(1.0%+0.2)	85.0~135.0V
Peak Line Voltage	±(1.0%+0.2)	120.0~190.0V
Voltage with Loading Equipments	±(2.5%+0.2)	10.0~135.0V
Mpedance-live and Neutral & Earth	±(2.5%+0.2)	0.00~3.00Ω
Neutral-Ground Voltage	±(2.5%+0.2)	>3.00Ω
RCD(GFCI) Trip Time	±(1.0%+0.2)	0.0~10.0V
RCD(GFCI) Trip Current	±(1.0%+0.2)	0.0~10.0V
Line Frequency	±(1.0%+0.2)	45.0~65.0Hz
% Voltage Drop	±(2.5%+0.2)	0.1~99.9%
Voltage Drop Load Current	12/15/20A	5/8/10A

Fault Localization and trouble shooting for Voltage Problems

Measurement Item	Normal Measurement Result	Fault Measurement Result	Possible Cause	Trouble Shooting
Phase Voltage	MS5908A 108~132V (120V)	The Voltage is too high or too low	The Circuit is Overloaded	Redistribute the Circuit Load
	MS5908C 198~242V (200V)		High impedance Points are Found in Switchboard or Circuit	Locate the high impedance and Repair or Replace Relevant Parts
			The Supply Voltage is too high or too low	Consult the Power Supply Department
Voltage Earth of Zero Line	<2V	>2V	Leakage Current	Find the Current Source: Is there any Multipoint Ground? Does the Equipment or Device Leak Current?
Three-Phase Imbalance			Check and Redistribute the Load	Increase Neutral Line Conductor, Install Electrical Filter or use Other Methods to Reduce the Harmonic Interference
Voltage Earth of Zero Line	<2V	>2V	Harmonic Interference	Consult the Power Supply Department
Peak Voltage	MS5908A 153~185V (120V)	The Voltage is too high or too low	The Supply Voltage is too high or too low	The Electron Device in the Circuit Results in the Electric Wave Distortion
Frequency	50Hz	The Frequency is too High or too Low	The Supply Frequency is too High or too Low	Consult the Electricity Department

General

Power Supply	6x1.5V AAA Batteries
Product Size	194mmx78mmx37mm/7.64x3.07x1.46"
Product Weight	254g/0.56lb
Safety Rating	CE(EMC+LVD) ETL CAT III 300V RoHS

**MS5908A****LINE VOLTAGE**
85~135V**PEAK LINE VOLTAGE**
120~190V**DROP LOAD CURRENT**
12A/15A/20A**~ V Hz % GFCI****EMC LVD****CAT III 300V****MS5908C****LINE VOLTAGE**
85~265V**PEAK LINE VOLTAGE**
120~375V**DROP LOAD CURRENT**
5A/8A/10A**~ V Hz % GFCI****EMC LVD****CAT III 300V**

RCD / LOOP TESTER MS5910

MS5910**VOLTAGE**
0~99.9V**CURRENT**
10~500mA**UL-L** **UL-E** **Hz****Ω** **RL** **TPA****MEM** **F/S** **○(1)****USB****EMC****CE****CAT III**
300V**RoHS****Specifications****MS5910**

Item	Range	Resolution	Accuracy
Trip-out time	x1 IΔN300 (slow 500ms)	0.1ms	±3ms
	x5 IΔN40ms (slow 150ms)		
Trip-out Current	(0.2-1.1)IΔN	0.05 IΔN	±0.1 IΔN
Contact Voltage	0~99.9V	0.01, 0.1V	±(10%+0.2V)
Alternating Voltage (UI-N, UL-L, UL-E)	0~440V	1V	±(3%+3V)
Frequency	DC, 45~65Hz	1Hz	±1Hz
Loop Resistance(RL)	0.1~2000 Ω	0.1 Ω	±(10%+0.2d)
RL Current Test	0.5 IΔN	0.05 IΔN	±(10%+10d)
Multiplying Power of Test Current	x0.5, x1, x5		
Current Level(IΔN)	10/30/100 300/500mA		
Trigger Phase Angle	0° or 180°		

Specifications**MS5910**

	IΔN(mA)	IΔx1/2(mA)	IΔx1(mA)	IΔx5(mA)	Auto(mA)
RCD	10	5	10	50	10
Test	30	15	30	150	30
Current	100	50	100	500	100
Selection	300	150	300	1500	300
Table	500	250	500	—	500

Features

Data Logging	1000 groups
Fast/Slow	Fast/Slow Testing of 10, 30, 100, 300, 500mA
Display Backlight	●
USB Interface	Windows OS
LBD	Low Battery Display

General

Power Supply	6x1.5V AA Batteries
Product Size	200mm x155mm x76mm / 7.6" x5.9" x2.95"
Product Weight	500g / 1.1lb
Safety Rating	CE(EMC) CAT III 300V RoHS

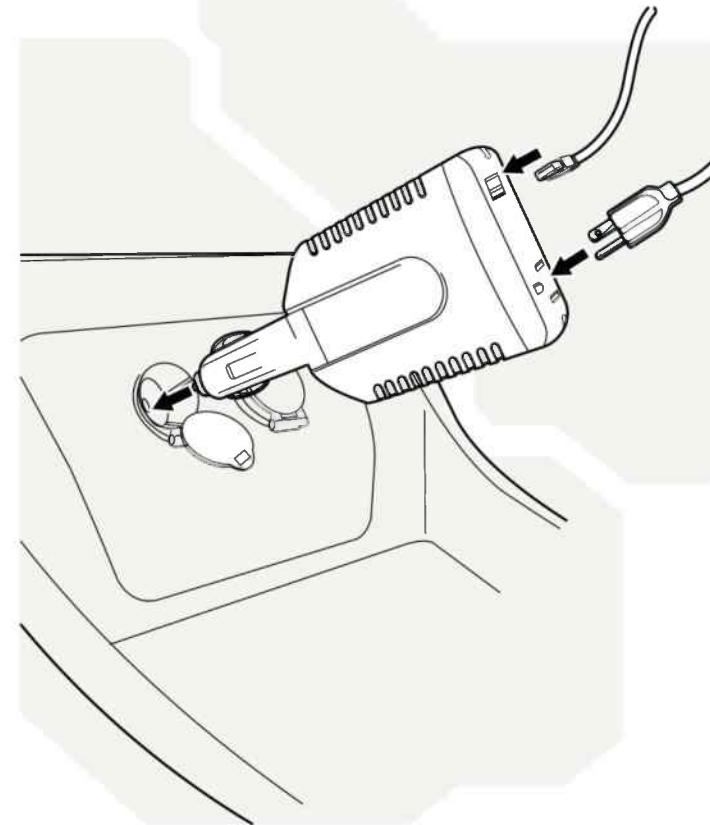
POWER INVERTER MS7103

MS7103**OUTPUT POWER**
100~200W**OUTPUT VOLTAGE**
AC 115V**○** **Hz****USB****Specifications****MS7103**

Output Waveform	Modified Sine Wave
Output Power	100W Continuous Power 200W Peak Power
Input	12V DC 10.5A
Output	115VAC 0.87A 60Hz
USB Output	5V DC 2100mA (MAX.)
Fuse	15A

General

Product Size	146mm x64.5mm x38mm 5.75" x2.52" x1.5"
Product Weight	145g / 0.32lb
Safety Rating	ETL RoHS



VOLTAGE / mA CALIBRATOR MS7221

EMC RoHS

MS7221**VOLTAGE**
0~100mV, 0~10V**CURRENT**
0~24mA **Specifications**

Measurement and Output Voltage Parameter

Function	Range	Resolution	Accuracy
DC V mV Input	0~100mV	0.01mV	
	0~10V	0.001V	
DC V mV Output	0~100mV	0.01mV	
	0~10V	0.001V	
Loop Power Output	24V DC	N/A	
DC mA Input	0~24 mA	0.001mA	
DC mA Output	0~24 mA	0.001mA	
DC V Input and Output	100mV	0.01mV	±(0.02%+2)
	10V	0.001V	±(0.02%+2)
DC mA Input and Output	24mA	0.001mA	±(0.015%+4)
Loop Power	24V		±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 TEMP range -10~18°C and 28~55°C
Relative Humidity	95% up to 30°C 75% up to 40°C 45% up to 50°C 35% up to 55°C
Shock	Random 2g 5Hz~500Hz
LBD	Low Battery Display
General	
Power Supply	1x9V6F22 Battery
Product Size	190mm×90mm×43mm/7.67"×3.54"×1.7"
Product Weight	350g/0.77lb
Safety Rating	CE(EMC) RoHS



PROCESS CALIBRATORS

THERMOCOUPLE CALIBRATOR MS7220

RoHS

MS7220**TYPE**
J, K, T, E, R, S, B, N**°F/C** **CJC** **TC****Specifications**

Thermocouple Standard Scale

Thermocouple Type	Standard	Scale
J, K, T, E, R, S, B, N	NIST 175	ITS-90
Type	Range	Resolution
J	-200°C~1200°C / -328°F~2192°F	0.1°C or °F
K	-200°C~1370°C / -328°F~2498°F	0.1°C or °F
T	-200°C~400°C / -328°F~752°F	0.1°C or °F
E	-200°C~950°C / -328°F~1742°F	0.1°C or °F
R	-20°C~1750°C / -4°F~3182°F	1°C or °F
S	-20°C~1750°C / -4°F~3182°F	1°C or °F
B	600°C~1800°C / 112°F~3272°F	1°C or °F
N	-250°C~1300°C / -418°F~2372°F	0.1°C or °F

Millivolt Range and Resolution

Mode	Range	Resolution
mV	-10mV~75mV	0.01mV

Millivolt Measure and Source (MAX input voltage:30V)

Range	Resolution	Accuracy
-10mV~75mV	0.01mV	±(0.02%+2)

Temperature Measure and Simulate (MAX input voltage:30V)

Type	Resolution	Error	Accuracy
J, K, T, E, N	0.1°C or °F	±(0.3°C+10uV)	±0.2°C
R, S, B	1°C or °F	±(0.3°C+10uV)	±0.2°C

Features

°C/F Selection Optional Temperature Unit Selection

LBD Low Battery Display

General

Power Supply	1x9V6F22 Battery
Product Size	195mm×90mm×43mm/7.67"×3.54"×1.7"
Product Weight	367g/0.8lb
Safety Rating	RoHS



MULTI-FUNCTIONS PROCESS CALIBRATOR MS7212

Left Figure.

Top Figure.

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		●
General			
Power Supply	1x9V Battery & 8x1.5V AA Batteries		
Product Size	224x172x59mm 8.8"x6.77"x2.28"		
Product Weight	1100g/2.2lb		
Safety Rating	CAT II 600V RoHS		

Specifications	Range	Accuracy
DC Voltage	400.00mV	±(0.025%+10)
	4.0000V/40.000V/300.00V	±(0.025%+5)
AC Voltage	400.00mV	±(0.7%+20)
	4.0000V/40.000V/300.00V	±(0.8%+10)
DC Current	400.00mA	±(0.1%+10)
AC Current	400.00mA	±(0.7%+10)
Resistance	400Ω/4KΩ/40KΩ/400KΩ	±(0.1%+10)
	4Hz~999.9Hz	±0.05Hz
Frequency	100Hz~5kHz	±0.5Hz
	5kHz~30kHz	±2Hz
Temperature	-50°C~1300°C	±(0.3%+1°C)
Source Output		
DC Voltage Output	100.000mV	0.025%+0.03%
	5.0000V/15.000V	0.025%+0.02%
DC Current Output	25.000mA	0.02%+0.02%
Frequency Output	20Hz~5000Hz	0.02%



SMART SMD TESTER MS8910 / MS8910A

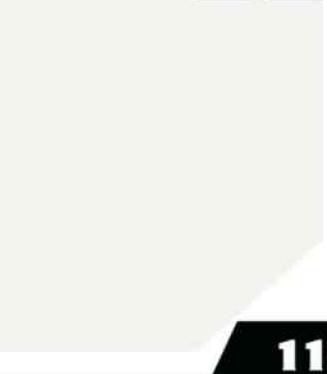
Specifications			MS8910
Specifications	Range	Accuracy	
Resistance	300Ω/3KΩ/30KΩ/300KΩ/3MΩ 30MΩ	±(1.0%+2) ±(1.2%+3)	
Capacitance	3nF/30nF/300nF/3μF/30μF 300μF/3mF/30mF	±(2.5%+3) ±(3.0%+3)	
Diode Check	Open Voltage Testing Current	2.8V 2mA	
Features			
Display	counts	3000	
Auto Ranging	Auto & Manual	●	
APO	Auto Power Off	●	
Auto Scanning		●	
Diode	2.8V	●	
Continuity Buzzer	<30Ω	●	
LBD	Low Battery Display	●	
General			
Power Supply	1x3V CR2032 Battery		
Product Size	175mmx32mmx20mm/6.89"x1.26"x0.79"		
Product Weight	48g/0.10lb		
Safety Rating	CE(EMC) RoHS		

Specifications			MS8910A
Specifications	Range	Accuracy	
Inductance	L	600μH/6000μH 60mH/600mHF/6H/60H/200H	±(2.0%+5) ±(1.0%+5)
	C	600pF 6nF/60nF/600nF/6μF	±(2.0%+8) ±(1.0%+5)
	R	60Ω 600Ω/6KΩ/60KΩ/600KΩ	±(2.0%+10) ±(1.0%+5)
	DCR	6MΩ/20MΩ 600Ω/6KΩ/600KΩ	±(2.0%+10) ±(1.0%+5)
		6mF	±(2.0%+5)
		60Ω 6MΩ/20MΩ	±(2.0%+10) ±(2.0%+5)
Features			
Dual Display	counts	6000	
Auto Check		●	
Auto Ranging	Auto & Manual	●	
APO	Auto Power Off	●	
Measuring Frequency Selection	100Hz/120Hz/1kHz/10kHz	●	
Measuring Voltage Selection	0.1V RMS / 0.5V RMS	●	
Measurement Parameters	D, Q, R	●	
Equivalent series and parallel mode selection	SER/PAL	●	
LBD	Low Battery Display	●	
General			
Power Supply	1x3V CR2032 Battery		
Product Size	175mmx32mmx20mm/6.89"x1.26"x0.79"		
Product Weight	48g/0.10lb		
Safety Rating	CE(EMC) RoHS		



Specifications			MS8910
Specifications	Range	Accuracy	
RESISTANCE	300Ω~30MΩ		
CAPACITANCE	3nF~30mF		

Specifications			MS8910A
Specifications	Range	Accuracy	
INDUCTANCE	600μH~6mF		
RESISTANCE	60Ω~20MΩ		



DIGITAL LCR METER

MS6013 / MY6243

MS6013**CAPACITANCE**
200pF~20mF

EMC

Specifications**MS6013**

Specifications	Range	Accuracy
Capacitance	200pF/2nF/20nF/200nF/2uF/20uF/200uF	±(0.5%+1)
	2000uF	±(1.0%+1)
	20mF	±(2.0%+2)
Features		
LCD Display	counts	2000
Zero Adjustment		●
Input Jacks		●
Accuracy	High Accuracy in Measuring	●
Fuse Protection	F 100mA / 250V	●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	189mm×91mm×31.5mm/7.4"×3.6"×1.2"	
Product Weight	240g/0.52lb	
Safety Rating	CE(EMC) RoHS	

MY6243**CAPACITANCE**
2nF~200μF**INDUCTANCE**
2mH~2H

EMC

Specifications**MY6243**

Specifications	Range	Accuracy
Capacitance	2nF/20nF/200nF	±(1.0%+1)
	2μF/20μF/200μF	±(2.0%+1)
Inductance	2mH/20mH/200mH	±(2.0%+1)
	2H	±(5.0%+1)
Features		
LCD Display	counts	2000
Zero Automatic		●
Input Jacks		●
Accuracy	High Accuracy in Measuring	●
Fuse Protection	F 100mA / 250V	●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	189mm×91mm×31.5mm/7.4"×3.6"×1.2"	
Product Weight	300g/0.66lb	
Safety Rating	CE(EMC) RoHS	

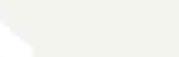
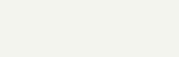
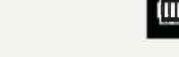
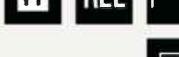
AUTORANGING DIGITAL LCR TESTER WITH USB INTERFACE

MS5308

ROHS

Specifications**MS5308**

Specifications	
Elevation	<2000m
Humidity	Relative Humidity
Operating TEMP	0°C~40°C
Features	
Dual Display	20000 and 2000 counts
Auto Ranging	Auto & Manual
APO	Auto Power Off
LCR	Auto LCR smart check and measurement
DCR	Support DCR mode
Measurement mode	Series/Parallel measurement mode are selectable
B.LIGHT	Display Backlight
LBD	Low Battery Display
General	
Power Supply	8×1.5 AA Batteries & 1×9V 6LR6 Battery
Product Size	224mm×172mm×58mm/8.8"×6.8"×2.3"
Product Weight	841g/1.85lb
Safety Rating	RoHS

**MS5308****RESISTANCE**
200MΩ**CAPACITANCE**
0.01pF~20.00mF**Specifications****MS5308**

Resistance Measurement			Capacitance Measurement			Inductance Measurement					
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	1uH	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	20.000uF	1nF	0.5%+5d	100Hz/120Hz	20.000H	1mH	0.5%+5d
100Hz/120Hz	2.0000MΩ	0.1kΩ	1.0%+5d	100Hz/120Hz	200.00uF	0.01uF	1.0%+5d	100Hz/120Hz	200.00H	0.01H	1.0%+5d
100Hz/120Hz	20.000MΩ	1kΩ	1.0%+5d	100Hz/120Hz	2000.0uF	0.1uF	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	2000.0uH	0.1uH	1.0%+5d
1kHz	200.00Ω	0.01Ω	0.3%+5d	1kHz	20.000nF	1pF	1.0%+5d	1kHz	20.000mH	1uH	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	20000.0pF	1nF	0.5%+5d	1kHz	20.000H	1mH	1.0%+5d
1kHz	2.0000MΩ	0.1kΩ	1.0%+5d	1kHz	2000.0pF	0.1pF	1.0%+5d	1kHz	200.00H	0.01H	2.0%+5d
1kHz	20.000MΩ	1kΩ	2.0%+5d	1kHz	2000.0pF	0.1uF	1.0%+5d	1kHz	2000.0H	0.1H	5.0%+5d
1kHz	200.00MΩ	0.1MΩ	5.0%+5d	10kHz	200.00pF	0.01pF	1.0%+5d	10kHz	200.00uH	0.01uH	1.0%+5d
10kHz	20.000Ω	0.001Ω	1.0%+5d	10kHz	2000.0pF	0.1pF	1.0%+5d	10kHz	200.00uH	0.1uH	0.5%+5d
10kHz	200.00Ω	0.01Ω	0.5%+5d	10kHz	20.000nF	1pF	1.0%+5d	10kHz	20.000mH	1uH	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	200.00mH	0.1mH	2.0%+5d
10kHz	200.00kΩ	0.01kΩ	1.0%+5d	100kHz	200.00pF	0.01pF	2.0%+5d	100kHz	20.000H	0.001H	5.0%+5d
100kHz	20.000Ω	0.001Ω	1.0%+5d	100kHz	2000.0pF	0.1pF	1.0%+5d	100kHz	20.000uH	0.001uH	1.0%+5d
100kHz	200.00Ω	0.01Ω	1.0%+5d	100kHz	20.000nF	1pF	2.0%+5d	100kHz	20.000mH	0.01uH	2.0%+5d
100kHz	2.0000kΩ	0.1Ω	1.0%+5d	100kHz	200.00nF	0.01nF	5.0%+5d	100kHz	200.00mH	0.1uH	2.0%+5d
100kHz	20.000kΩ	1Ω	2.0%+5d					100kHz	20.000mH	1uH	2.0%+5d

AC VOLTAGE DETECTOR

MS8900A / MS8900N

MS8900A

VOLTAGE
AC 90~1000V

✓ LED (1)



EMC
LVD



Specifications

	MS8900A	MS8900N
Specifications		
NCV	Non-Contact AC Voltage Detector	●
AC Voltage	90~1000V	●
Frequency	50Hz~60Hz	●
Instruction	Sound and Light	●
LED Light	Red and Green	●
Detecting Distance	<5mm	●
Altitude	<2000m	●
Operating Temperature	0°C~50°C / 32°F~122°F	●
Storage Temperature	-20°C~60°C / -4°F~140°F	●
Humidity	<85%RH	●
Prolate	●	●
Probe Shape	Elongated circle	●
General		
Power Supply	2x1.5V AAA Batteries	
Product Size	148mm×25mm×20mm/5.8"×0.98"×0.78"	
Product Weight	40g/0.08lb	
Safety Rating	CE(EMC+LVD) ETL CAT.II 1000V / CAT.III 600V RoHS	

● Feature Difference

MS8900N

VOLTAGE
AC 90~1000V

✓ LED (1)



AC VOLTAGE DETECTOR

MS8902A / MS8902B / MS8902H

EMC
LVD



Specifications

	MS8902A	MS8902B	MS8902H
Specifications			
Non-Contact AC Voltage Detector	●	●	●
AC Voltage Range	12V~1000V	20V~600V	100V~1000V
Frequency	50Hz~500Hz	50Hz~500Hz	50Hz~60Hz
Instruction	Sound and Light	Sound and Light	Sound and Light
Red and Green LED Light	●	●	●
Metal Detecting Distance		<20mm	
Altitude	<2000m	<2000m	<2000m
Operating Temperature	-10~50°C	-10~50°C	-10~50°C
Storage Temperature	-20~60°C	-20~60°C	-20~60°C
Humidity	<85%RH	<85%RH	<85%RH
Auto Power Off	●	●	
Double Molded Case	●	●	●
Low Battery Indication	●	●	
MEM Function (AC Voltage Sensitivity)	●	●	
Default and Manual AC Voltage Sensitivity adjustment	●	●	
General			
Power Supply	2x1.5V AAA	1x12V A23S	2x1.5V AAA
Product Size	157×24×20mm/6.18"×0.94"×0.78"		
Product Weight	42g/0.09lb		
Order Ref. Number	MS8902A	MS8902B	MS8902H
Safety Rating	CAT.II 1000V CAT.III 600V CE(EMC+LVD) ETL	CAT.III 600V CE(EMC+LVD) ETL	CAT.II 1000V CAT.III 600V CE(EMC+LVD) ETL

● Feature Difference



MS8902A

VOLTAGE
AC 12~1000V

✓ MEM LED
Apo (±) (1)

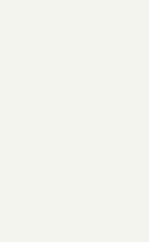


MS8902B

VOLTAGE
AC 20~600V

✓ MEM LED
Apo (±) (1)

● AC VOLTAGE & METAL DETECTOR



MS8902H

VOLTAGE
AC 100~1000V

✓ LED (1)

● 110V / 220V

AC VOLTAGE DETECTOR MS8904A



MS8904A

VOLTAGE
AC 70~250V

✓ LED

✓ NCV

NEW



Specifications		MS8904A
AC Voltage	70~250V	●
Frequency	50Hz/60Hz	●
Instruction	Sound and Light	●
LED	Red and Green LED Light	●
Altitude	< 2000m	●
Operating TEMP	0~40°C (32~104°F)	●
Storage TEMP	-10~50°C (14~122°F)	●
Humidity	< 85%RH	●
Features		
Data Hold		●
NCV	Non-Contact AC Voltage Detector	●
Continuity Buzzer		●
Work Light		●
General		
Power Supply	2x1.5V LR44 Batteries	
Product Size	148mm×19mm×19mm/6.2"×0.95"×0.79"	
Product Weight	42g/0.09lb	
Safety Rating	CE(EMC+LVD) ETL CAT II 250V RoHS	



AC VOLTAGE DETECTOR MS8907 / MS8907H



MS8907 MS8907H

Specifications		MS8907	MS8907H	
NCV	Non-Contact AC Voltage Detector	●	●	
AC Voltage		220V	110V	
Frequency	50Hz/60Hz	●	●	
Instruction	Sound and Light	●	●	
LED	Red and Green LED Light	●	●	
Altitude	< 2000m	●	●	
Operating TEMP	-10~50°C	●	●	
Storage TEMP	-20~60°C	●	●	
Humidity	< 85%RH	●	●	
Shell	Double Molded Case	●	●	
LBI	Low Battery Indicators	●	●	
Work Light		●	●	
General				
Power Supply	2x1.5V AAA Batteries			
Product Size	157mm×24mm×20mm/6.2"×0.95"×0.79"			
Product Weight	42g/0.09lb			
Model Number	MS8907		MS8907H	
Order Ref. Number	MS8907C15	MS8907(C15)NH	MS8907HC15	MS8907H(C15)NH
Safety Rating	CAT II 1000V	CAT II 1000V	CAT II 1000V	CAT II 1000V
	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V
	CE(EMC+LVD)	CE(EMC+LVD)	CE(EMC+LVD)	CE(EMC+LVD)
	ETL	ETL	ETL	ETL
	Neutral-Hot	Identifiable	Neutral-Hot	Identifiable



MS8907

VOLTAGE
AC 220V

✓ V

✓ LED

✓ o()

VOLTAGE
AC 110V

✓ V

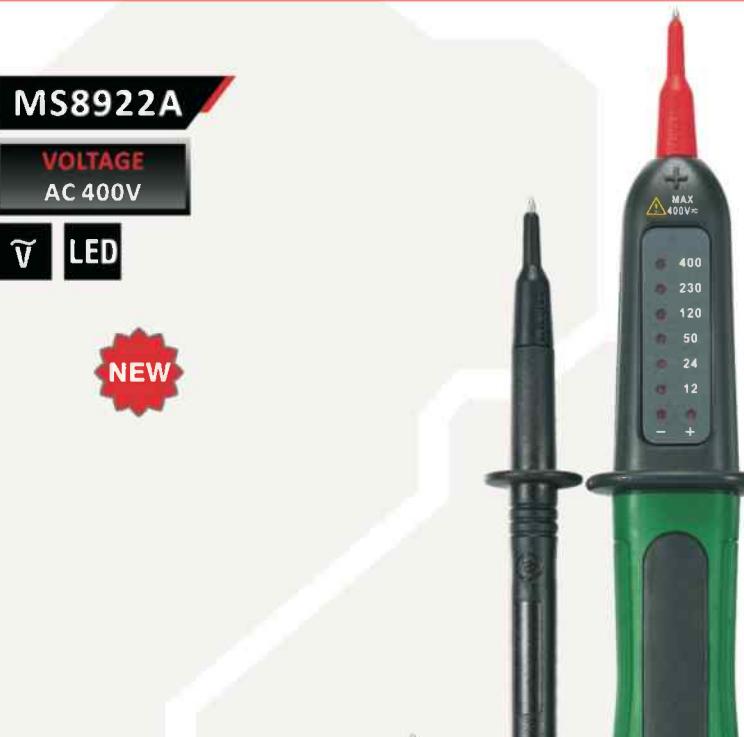
✓ LED

✓ o()

NEW

AC VOLTAGE TESTER

MS8922A / MS8922H

**MS8922A**VOLTAGE
AC 400V

V LED

NEW

EMC
LVD **Specifications****Specifications**

Voltage LED Steps	±12V, 24V, 50V, 120V, 230V, 400V
Accuracy	-30%~10% of indication
Frequency	50Hz/60Hz
Response Time	<0.1s
Altitude	< 2000m
Operation Time	30s
Recovery Time	10 minutes
Relative Humidity	< 80%RH
Temperature Range	-10~55°C / 14~131°F
General	
Product Size	223mm×40mm×32mm/8.78"×1.57"×1.26"
Product Weight	98.5g/0.26lb
Safety Rating	CE(EMC+LVD) CAT III 400V RoHS

MS8922A**MS8922H**VOLTAGE
AC 400V

V GFCI LED

NEW

ETL
Intertek **Specifications****Specifications**

Voltage LED Steps	±12V, 24V, 50V, 120V, 230V, 400V
Accuracy	-30%~10% of indication
Frequency	50Hz/60Hz
Response Time	<0.1s
Altitude	< 2000m
Operation Time	30s
Recovery Time	10 minutes
Relative Humidity	< 80%RH
Temperature Range	-10~55°C / 14~131°F
GFCI Test	
Audible	
General	
Product Size	223mm×40mm×32mm/8.78"×1.57"×1.26"
Product Weight	98.5g/0.26lb
Safety Rating	ETL CAT III 400V RoHS

MS8922H

NETWORK CABLE TESTER

MS6810 / MS6811

EMC

Specifications**MS6810**

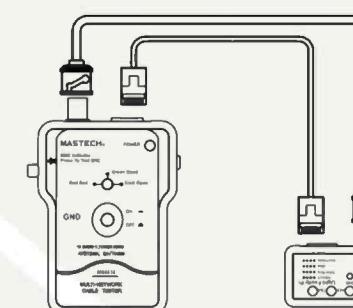
Specifications	
Testing Coaxial Cable (BNC)	●
Testing 10Base-T, T568A, T568B, Token Ring	●
Testing Cables' Shield Integrity	●
Measurement Distance Of Cables	200m(max)
General	
Power Supply	1x9V 6F22 Battery
Product Size	153×74×31mm/6.0"×2.9"×1.2"
Product Weight	120g/0.26lb
Safety Rating	CE(EMC)RoHS



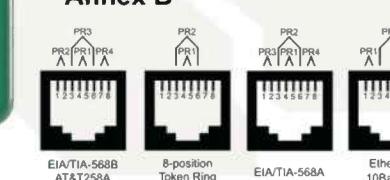
EMC

**MS6810****MS6810**

ANNEX A



ANNEX B



EIA/TIA-568B AT&T258A 8-position Token Ring EIA/TIA-568A Ethernet 10Base-T

Specifications**MS6811**

Specifications	
Battery Low Led Indicator	●
Testing 10Base-T, T568A, T568B, Token Ring	●
Testing Cables' Shield Integrity	●
Measurement Distance Of Cables	200m(max)
General	
Power Supply	1x6V 4LR44/AG13 Battery
Product Size	125×55×30mm/4.9"×2.2"×1.2"
Product Weight	106g/0.23lb
Safety Rating	CE(EMC)RoHS

**MS6811**

FAULT DETAILS

Fig.4 SPLIT PAIRS

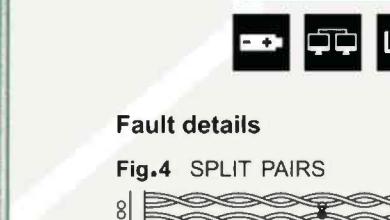


Fig.1 SHORT



Fig.2 MISWIRE

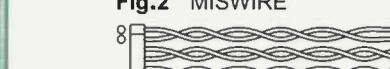
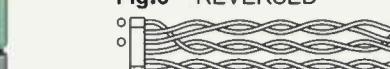


Fig.3 REVERSED



CABLE TRACKER MS6812

EMC RoHS

MS6812

**RECEIVE
FREQUENCY**
100Hz~300kHz

**SEND TONE
FREQUENCY**
1.5kHz

TONE



Specifications

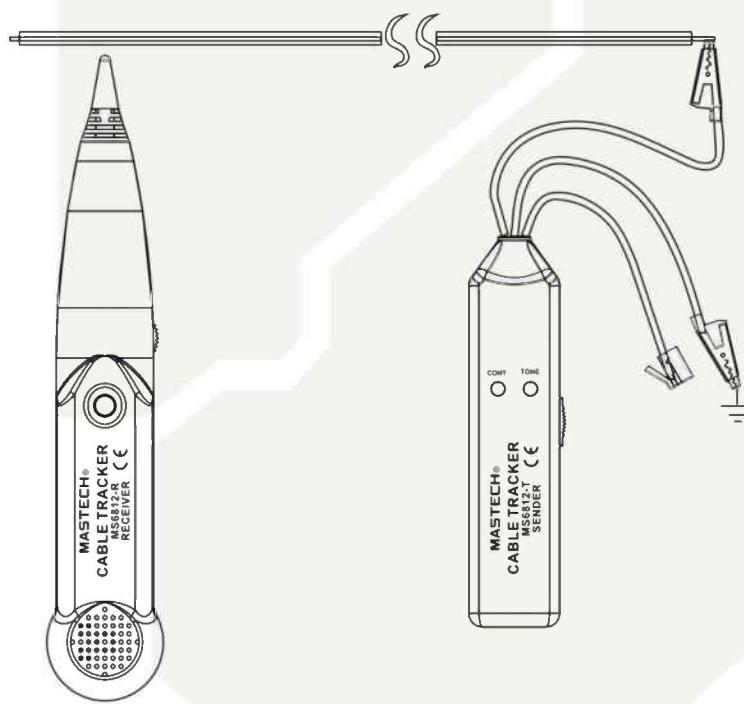
MS6812

Specifications

- 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

Tone Generator Output (Square Waveform):	Single (1500Hz)
	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	R: 238mm×43mm×26mm/9.4"×1.7"×1.0"
Emitter Size	T: 145mm×35mm×25mm/5.7"×1.38"×0.98"
Receiver Weight	R: 71g/0.16lb
Emitter Weight	T: 87g/0.2lb
Safety Rating	CE(EMC) RoHS



MULTI-FUNCTIONS CABLE TRACKER MS6813

EMC RoHS

Specifications

MS6813

Specifications

- Testing Coaxial Cable (BNC)
- Testing 10Base-T, T568A, T568B, Token Ring
- Testing Cables' 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.
- Send tone frequency: 1.5kHz
- Receive frequency: 100Hz~300kHz

General

Power Supply	2x9V 6F22
Product Size	206mm×84mm×55mm/8.1"×3.3"×2.1"
Product Weight	330g/0.72lb
Safety Rating	CE(EMC) RoHS



MS6813

**RECEIVE
FREQUENCY**
100Hz~300kHz

**SEND TONE
FREQUENCY**
1.5kHz



ADVANCED WIRE TRACKER MS6818

EMC LVD CE CAT III 300V RoHS PATENTED

MS6818

VOLTAGE DC 400V AC 400V

OUTPUT SIGNAL 125 kHz

AUTO Apo

Speaker **Light**

Battery



★ Won the U.S. **EC&M Testing and Positioning equipment 2013 Annual Award**

ADVANCED WIRE TRACKER MS6818

EMC LVD CE CAT III 300V RoHS PATENTED

Specifications

MS6818

Specifications

Find the Beaks or Shorts in Cable in the wall or Earth

Track Cables in the wall or Earth

Find the Fuse and Safeguard

Find the Beaks or Shorts in Conduit under the Floor

Track a Metal Conduit in the Project of ware or hot

Sensitivity of Receiver can be Selected

Auto Ranging, Auto Power Off, Backlight and Worklight

Technical Parameters of Transmitter

Output Signal 125 kHz

External Voltage DC 12~400V AC 12~400V(50~60Hz) ±2.5%

Fuse F 0.5A 500V

MIN Current about 31mA

MAX Current about 115mA

In Work 0~40°C, with MAX relative humidity of 80%

In Storage -20~60°C, 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 1x9V 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 Mode Dual pole application: about 0~0.5m

Single loop line: Up to 2.5m

MIN Current about 32mA

MAX Current about 89mA

In Work 0~40°C, with MAX relative humidity of 80%

In Storage -20~60°C, with MAX relative humidity of 80%

Altitude <2000m

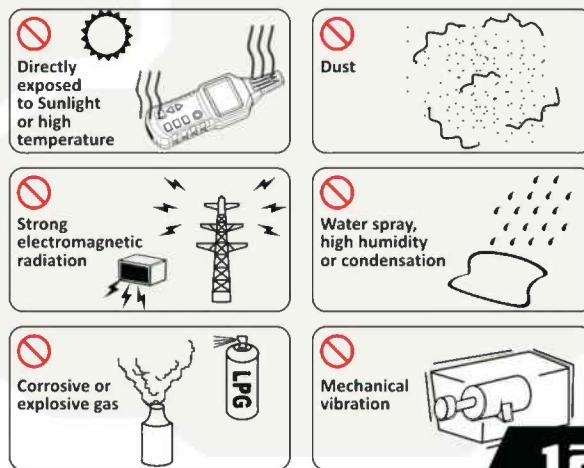
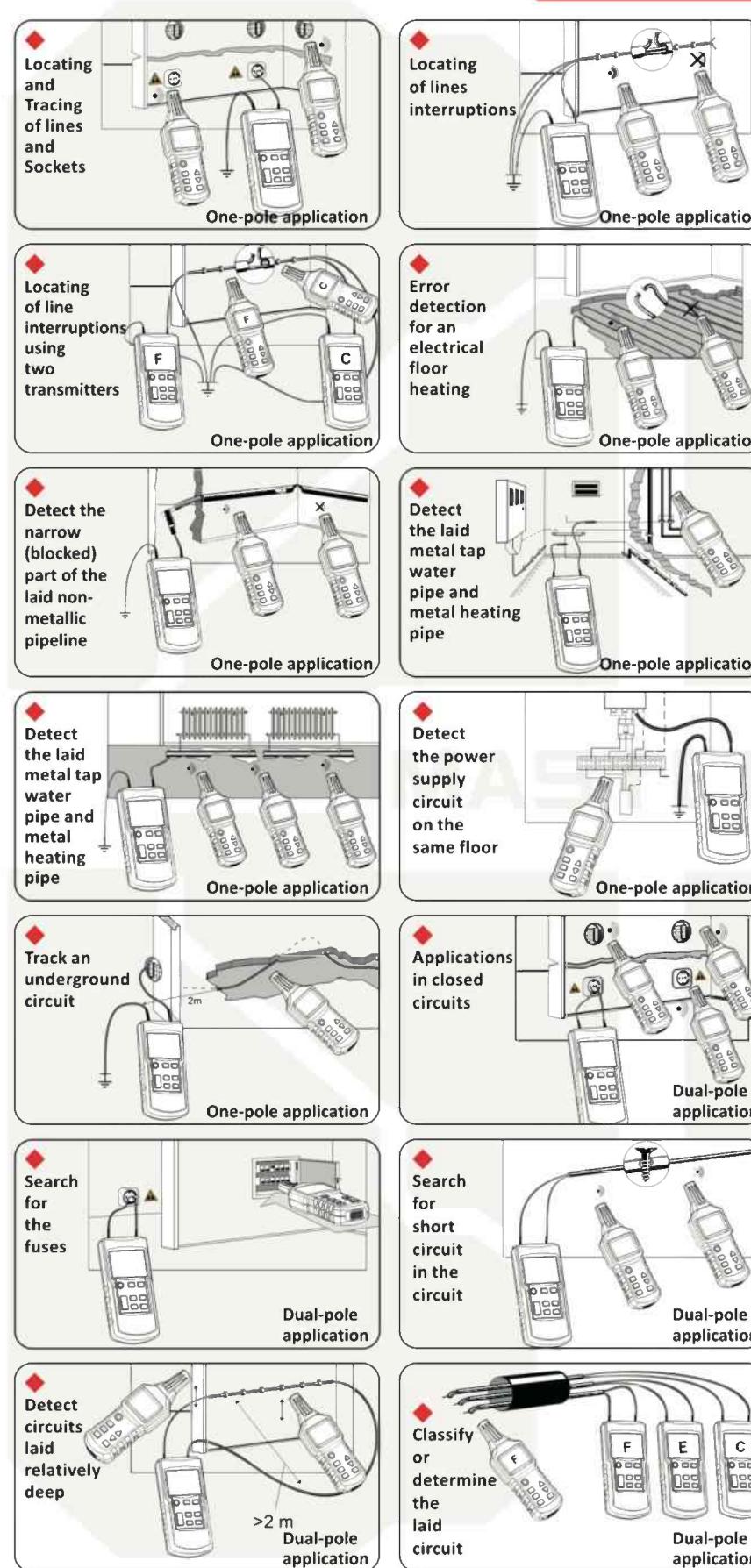
Product Size 241.5mm×78mm×38.5mm/9.5"×3"×1.5"

Product Weight 350g/0.77lb

Power Supply 1x9V 6F22 Battery

General

Safety Rating CE(EMC+LVD) CAT III 300V RoHS



DIGITAL LIGHT METER

MS6610

(LUX)



MS6610

LUX RANGE

5000



MASTECH.

MS6610 LUXMETER

150

X1 X10 X100

ON/OFF

X100 20000~50000
X10 2000~19990
X1 0~1999

PHOTO DETECTOR



PHOTO DETECTOR

Specifications

MS6610

Specifications	Range	Resolution	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	1x9V 6F22 Battery		
Dimension Size	126x72x27mm/5.0"x2.8"x1.0"		
Photo Detector Size	83x52x21mm/3.2"x2.0"x0.8"		
Product Weight	180g/0.4lb		
Safety Rating	RoHS		



DIGITAL LIGHT METER

(LUX / FC / CD) MS6612 / MS6612T



MS6612

LUX RANGE

200000



FC RANGE

20000



MAX MIN



REL PEAK



ZERO H



ON OPEN

MS6612T

LUX RANGE

200000



FC RANGE

20000

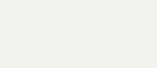


CD RANGE

999900



AUTO Apo



MAX MIN



REL PEAK

ZERO L.S. H

ENVIRONMENTAL TESTERS

Specifications

MS6612

Specifications	Range	Resolution	Accuracy
Measurement	0~200000Lux	0.01Lux	±(3%+2)
Range	0~20000FC	0.01FC	±(3%+2)

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		●
Backlight	Display Backlight	●
Analog Bar	Analog Bar Indication	●
LBD	Low Battery Display	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	170mmx89mmx43mm/6.7"x3.5"x1.7"	
Product Weight	177g/0.39lb	
Safety Rating	CE(EMC) RoHS	



DIGITAL TACHOMETER

MS6208A / MS6208B

MS6208A**RANG**
50~19999 RPM

Apo MAX MIN AVG

MEM H ☼

RPM 🔋



EMC CE RoHS

Specifications**MS6208A**

Specifications	Range	Resolution	Accuracy
Contact Measurement	50~99.99RPM	0.01RPM	±(0.03%+2)
	100~9999.9RPM	0.1RPM	±(0.03%+2)
	10000~19999RPM	1RPM	±(0.03%+2)
Features			
Auto Power Off	Auto Power Off	●	
MAX/MIN/AVG		●	
Unit selection	m/min m/sec ft/min ft/sec in/min	●	
Data Logging	100 groups	●	
Data Hold		●	
Display Backlight		●	
LBD	Low Battery Display	●	
General			
Power Supply	4x1.5AAA Batteries		
Product Size	170mmx60mmx27mm/6.7"×2.4"×1.1"		
Product Weight	130g/0.28lb		
Safety Rating	CE RoHS		

MS6208B**RANG**
50~99999 RPM

Apo MAX MIN AVG

MEM H ☼

RPM 🔋



EMC CE RoHS

Specifications**MS6208B**

Specifications	Range	Resolution	Accuracy
Non-Contact Measurement (Photo)	50~99.99RPM	0.01RPM	±(0.03%+2)
	100~9999.9RPM	0.1RPM	±(0.03%+2)
	10000~99999RPM	1RPM	±(0.03%+2)
Features			
Measuring Distance	50mm~250mm	●	
Auto Power Off	Auto Power Off	●	
MAX/MIN/AVG		●	
Unit selection	m/min m/sec ft/min ft/sec in/min	●	
Data Logging	100 groups	●	
Data Hold		●	
Display Backlight		●	
LBD	Low Battery Display	●	
General			
Power Supply	4x1.5AAA Batteries		
Product Size	155mmx60mmx27mm/6.1"×2.4"×1.1"		
Product Weight	120g/0.26lb		
Safety Rating	CE RoHS		

DIGITAL ANEMOMETER

MS6252A / MS6252B

EMC CE RoHS

Specifications**MS6252A MS6252B**

Specifications	Range	Accuracy
m/s (meter per second)	0.80~30.00 m/s	±(2.0%+50) ±(2.0%+50)
	30.00~40.00 m/s	For Reference only
km/h (kilometer per hour)	1.40~108.00 km/h	±(2.0%+50) ±(2.0%+50)
	108.00~144.00 km/h	For Reference only
ft/s (feet per second)	1.30~98.50 ft/s	±(2.0%+50) ±(2.0%+50)
	98.50~131.20 ft/s	For Reference only
Knots (nautical miles per hour)	0.80~58.30 knots	±(2.0%+50) ±(2.0%+50)
	58.30~77.70 knots	For Reference only
mile/h (mile per hour)	0.90~67.20 mil/h	±(2.0%+50) ±(2.0%+50)
	67.20~90.00 mil/h	For Reference only
ft/m (feet per minute)	78~5900 ft/m	±(2.0%+50) ±(2.0%+50)
	5900~7874 ft/m	For Reference only
Air Volume Unit	CFM	0~9.9990ft³
	CMM	0~9.9990m³
	CMS	0~9.999m²
Temperature	-20~60°C	±1.5°C
	-4~140°F	±2.7°F
Relative Humidity	(20~80%) RH	±3%
	(<20~>80%) RH	±5%
Features		
Display	counts	9999 9999
APO	Auto Power Off	● ●
Flow Area Setting		● ●
MAX/MIN		● ●
°C/F Selection		● ●
Data Hold		● ●
Ambient		●
Dew Point		●
Wet Bulb		●
Temperature		●
Display Backlight		● ●
LBD	Low Battery Display	● ●
USB Interface	(Windows OS)	●
General		
Power Supply	1x9V 6F22 Battery	
Product Size	165mmx85mmx38mm/6.5"×3.3"×1.5"	
Product Weight	168g/0.37lb	
Safety Rating	CE RoHS	

● Feature Difference

**MS6252A****CFM 99990 9.9990ft³****CMM 99990 9.9990m³****CMS 9999 9.999m²****m/s km/h ft/s****knots mile/h ft/m****CFM CMM CMS****Apo MAX MIN H****+ - ☼****MS6252B****CFM 99990 9.9990ft³****CMM 99990 9.9990m³****CMS 9999 9.999m²****m/s km/h ft/s****knots mile/h ft/m****CFM CMM CMS****DP WB****°F/C ☼ USB****Apo MAX MIN H****+ - ☼**

LASER DISTANCE METER**MS6414 / MS6416 / MS6418 / MS64100**

MS6414
DISTANCE
0.05m~40m

MS6416
DISTANCE
0.05m~60m

MS6418
DISTANCE
0.05m~80m

MS64100
DISTANCE
0.05m~100m

EMC CE RoHS PATENTED

Specifications	MS6414	MS6416	MS6418	MS64100
Specifications	Range			
Distance	0.05~40m/2~131"	0.05~60m/2~197"	0.05~80m/2~263"	0.05~100m/2~329"
Accuracy	±1.5mm/± 0.06"	±1.5mm/± 0.06"	±1.5mm/± 0.06"	±1.5mm/± 0.06"
Unit	meter/inch/feet	meter/inch/feet	meter/inch/feet	meter/inch/feet
Length	9999m	9999m	9999m	9999m
Area	99999m ²	99999m ²	99999m ²	99999m ²
Volume	99999m ³	99999m ³	99999m ³	99999m ³
Features	Laser Assisted laser ray measurements APO Auto Power Off Data Logging 99 groups Area & Volume Area & Volume Calculation Foot level Auxiliary foot level measurement Backlight Display Backlight General Power Supply 3×1.5V AAA Batteries Product Size 120×60×28mm/4.2"×2.2"×0.9" Product Weight 175g/0.4lb Safety Rating CE(EMC) RoHS			

**ULTRASONIC DISTANCE METER****MS6450**

EMC CE cETLus Intertek ROHS

Specifications	MS6450	
Specifications	Range Accuracy	
Distance	0.6m~15m (2 feet~50 feet)	±(0.5% ±1)
Unit	m/feet	●
Length	9999m	●
Area	99999m ²	●
Volume	99999m ³	●
Features	Laser Assisted laser ray measurements MEM Input & Recall FT/M Feet/Meter Conversion Area & Volume Area & Volume Calculation Backlight Display Backlight General Power Supply 1x9V 6F22 Battery Product Size 136mm×59mm×38mm/5.4"×2.3"×1.5" Product Weight 117g/0.26lb Safety Rating CE(EMC) ETL RoHS	



MOISTURE TESTER

MS6900 / MS6900A

EMC CE RoHS

MS6900**DEPTH**
0~50mm**RESOLUTION**
0.1%, 0.1°C, 0.1°F
0.1%RH

°F/°C H₂O

MAX MIN H LED

**Specifications****MS6900**

Specifications	Range	Accuracy
Depth	0~50mm	0~50mm
Ambient TEMP	-10°C~50°C/14°F~122°F	±0.2°C/±1°F
Electric Conductivity	0.0~60.0%	±1%
Humidity	10~90%	±5%
Features		
MAX/MIN		●
Sampling Rate	Moisture and Humiture	●
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	2x1.5V AAA Batteries	
Product Size	130mm×56mm×29mm/5.1"×2.2"×1.1"	
Product Weight	120g/0.26lb	
Safety Rating	CE(EMC) RoHS	

MS6900A**DEPTH**
0~50mm**RESOLUTION**
0.1%, 0.1°C, 0.1°F
0.1%RH

°F/°C H₂O

MAX MIN H LED

**Specifications****MS6900A**

Specifications	Range	Accuracy
Depth	0~50mm	0~50mm
Ambient TEMP	-10°C~50°C/14°F~122°F	±0.2°C/±1°F
Electric Conductivity	0.0~60.0%	±1%
Humidity	10~90%	±5%
Features		
Auxiliary	Verification Test Points	●
MAX/MIN		●
Sampling Rate	Moisture and Humiture	●
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	2x1.5V AAA Batteries	
Product Size	130mm×56mm×29mm/5.1"×2.2"×1.1"	
Product Weight	120g/0.26lb	
Safety Rating	CE(EMC) RoHS	

COMBUSTIBLE GAS DETECTOR

MS6310

EMC CE RoHS PATENTED

MS6310**RESOLUTION**
50 ppm**ALARM**
10%~40%

GAS LED



ENVIRONMENTAL TESTERS

Specifications**MS6310**

Specifications	
Resolution (methane)	50ppm
Alarm at Level	10%~40%
Warm Up Time	2 Minutes
Response time (40% LEL)	<2 Seconds

Feature	
Easy To Identify and Pinpoint Gas Leaks	●
Portable and High Sensitivity	●
Resume Original Measurement State after 7~10 minutes in Clean 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	4x1.5V AAA Batteries
Product Size	172mm×70mm×46mm/6.8"×2.8"×1.8"
Product Weight	354g/0.78lb
Safety Rating	CE(EMC) RoHS



DIGITAL SOUND LEVEL METER MS6700 / MS6701

MS6700**SOUND LEVEL**
30dB~130dB**FREQUENCY**
31.5Hz~8KHz**dB** **H_z** **AUT_O****Apo** **F/S** **A/C****MAX**EMC **CE** **RoHS****Specifications****MS6700** **MS6701**

Specifications	Range	Resolution	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
Sample Rate		2 times/s	2 times/s
Dynamic	50dB		●
Frequency	31.5Hz~8KHz	●	●
Features			
Display	counts	2000	2000
Data logging	records	16000	16000
Auto Ranging	Auto & Manual	●	●
APO	Auto Power Off	●	●
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	Voltage 9VDC		
	Voltage Ripple < 100m Vpp		
	Supple Current > 100m ADC		
	Socket: pin Ground	●	●
	Casing Positive		
	External Diameter 3.5mm		
Fast		●	●
Slow		●	●
A Weighting		●	●
C Weighting		●	●
Date and Time	Date and Time Display	●	●
MAX		●	●
Data Hold		●	●
B.L.	Display Backlight	●	●
LBD	Low Battery Display	●	●
Analog Bar	Analog Bar Indication	●	●
UNDER / OVER	Over Range Indication	●	●
RS-232 Pclink		●	●
USB Interface		●	●
General			
Power Supply	6x1.5V AAA Batteries		
Product Size	265mm×80mm×69mm/10.4"×3.15"×2.7"		
Product Weight	317g/0.7lb		
Safety Rating	CE(EMC) RoHS		

● Feature Difference

MS6701**SOUND LEVEL**
30dB~130dB**FREQUENCY**
31.5Hz~8KHz**dB** **H_z** **MEM****AUT_O** **Apo** **F/S****MAX** **A/C** **USB****MAX** **RS** **232C**

DIGITAL SOUND LEVEL METER MS6702 / MS6708

MS6702**SOUND LEVEL**
30dB~130dB**FREQUENCY**
31.5Hz~8KHz**TEMPERATURE**
-20°C~60°C**HUMIDITY**
10~90% RH**dB** **H_z** **°F****AUT_O** **Apo** **F/S****°F/°C** **MAX** **A/C****MAX** **RS** **232C**EMC **CE** **RoHS****Specifications****MS6702** **MS6708**

Specifications	Range	Resolution	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
Sample Rate		2 times/s	2 times/s
Dynamic	50dB		●
Frequency	30Hz~8KHz	●	●
Temperature	-20°C~10°C		±2°C
Relative Humidity	10%~90%		±3.5%RH
Features			
Display	counts	2000	2000
Data logging	records	16000	
Auto Ranging	Auto & Manual	●	●
APO	Auto Power Off	●	●
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	Voltage 9VDC		
	Voltage Ripple < 100m Vpp		
	Supple Current > 100m ADC		
	Socket: pin Ground	●	
	Casing Positive		
	External Diameter 3.5mm		
Fast		●	●
Slow		●	●
A Weighting		●	●
C Weighting		●	●
Date and Time	Date and Time Display	●	
MAX		●	●
Data Hold		●	●
B.L.	Display Backlight	●	●
LBD	Low Battery Display	●	●
Analog Bar	Analog Bar Indication	●	●
UNDER / OVER	Over Range Indication	●	●
RS-232 Pclink		●	
USB Interface		●	
°C/°F Selection		●	
General			
Power Supply	1.5V AAA Battery	6	4
Product Size	265×80×69mm/10.4×3.15×2.7"	●	
Product Weight	317g/0.7lb	●	
Safety Rating	CE(EMC) RoHS	●	●

● Feature Difference



MULTI-FUNCTIONS MS6300 ENVIRONMENT TESTER

**MS6300****TEMPERATURE**
-10~60°C
-14~140°F**HUMIDITY**
20~80%RH**SOUND LEVEL**
30~130dB(A)**ILLUMINANCE**
0~50000LUX**WIND SPEED**
0.5~20m/s**AIR FLOW**
999900 CMM/CFM

°F/°C %RH Lux

dB km/h

m/s FPM knots

CMS CFS FPM

AUTO Apo H

MAX MIN AVG DIF

+ -

**Specifications****MS6300**

Specifications	Range	Resolution	Accuracy
Temperature	-10~60°C	0.1°C	±1.5°C
	14~140°F	0.1°F	±2.7°F
Relative Humidity	20%~80%RH	0.1RH	±3.0%RH
	<20% or >80%RH	0.1RH	±5.0%RH
Sound Level	30~130dB(A)	0.1dB	±1.5dB
	35~130dB(C)	0.1dB	±1.5dB
Illuminance	0~2000LUX	1 LUX	±(5.0%+10)
	X10(20000)	10 LUX	±(5.0%+10)
	X100(50000)	100 LUX	±(5.0%+10)
Wind Speed	0.5~20m/s	0.1m/s	±(3.0%+10)
	1.8~72km/h	0.1Km/s	±(3.0%+10)
	1.6~65.7ft/s	0.1ft/s	±(3.0%+10)
	0.9~38.9knots	0.1knots	±(3.0%+10)
Air Flow(CMM)	0~999900CMM	0.1CMM(<1000CMM)	±(3.0%+10)
		1CMM(>1000)	
Air Flow(CFM)	0~999900CFM	0.1CFM(<1000CFM)	±(3.0%+10)
		1CFM(>1000CFM)	
Features			
Auto Ranging	Auto & Manual	●	
APO	Auto Power Off	●	
Unit	ft ² , m ²	●	
Value	AVG/MAX/MIN/DIF(MAX-MIN)	●	
A Weighting	A Weighting Indication	●	
C Weighting	C Weighting Indication	●	
Data Hold		●	
B.L	Display Back Light	●	
LBD	Low Battery Display	●	
General			
Power Supply	1x9V 6F22 Battery		
Product Size	280mm×89mm×50mm/11.0"×3.5"×2.0"		
Product Weight	433g/0.95lb		
Safety Rating	CE(EMC) RoHS		

Specifications**MS6300**CAT III
600V

RoHS

Specifications**MS921**

Specifications	Range	
AC Voltage	250V	●
AC Current	15A	●
X1 current terminal	Tests actual working current	●
X10 current terminal	Tests working current x10	●
Features		
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		●
General		
Product Size	161mm×57mm×31mm/6.3"×2.2"×1.2"	
Product Weight	106g/0.23lb	
Safety Rating	ETL CAT.III 600V RoHS	

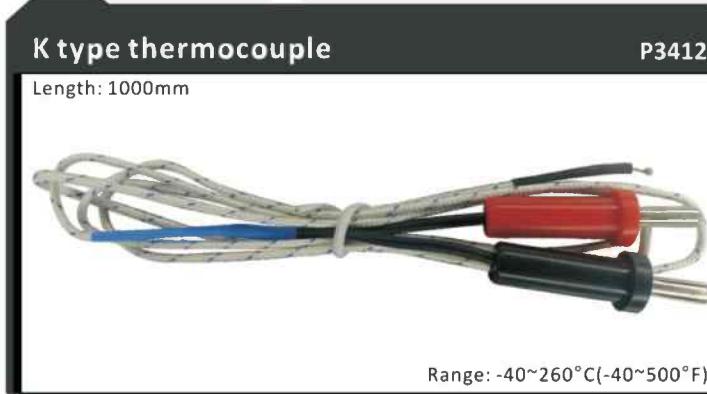
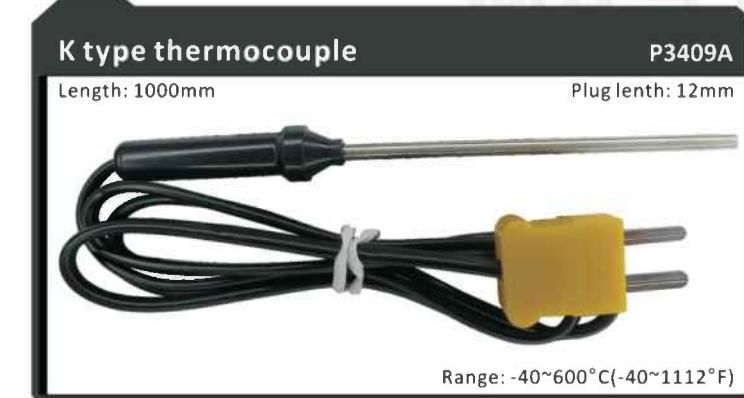
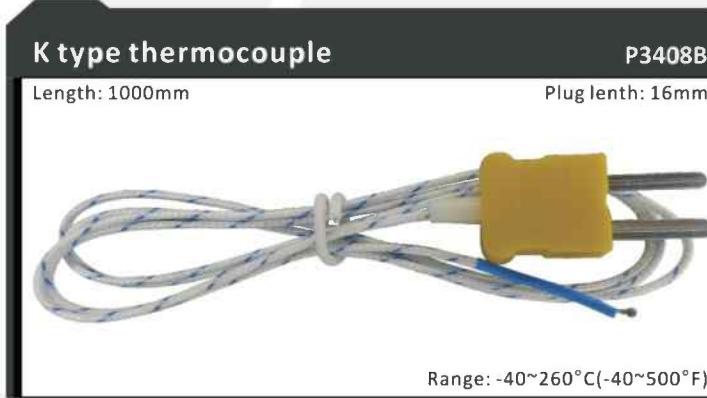
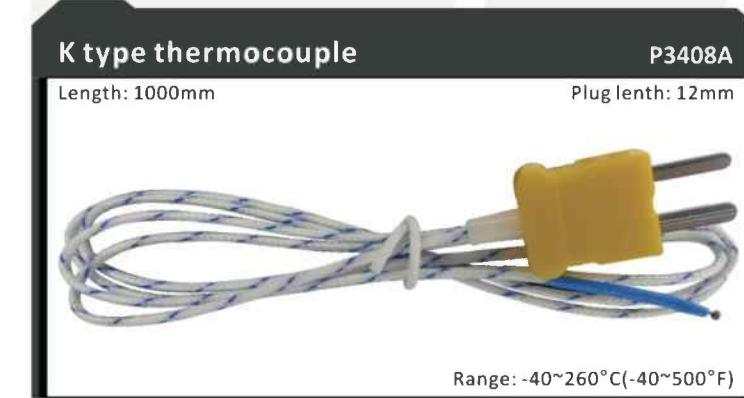
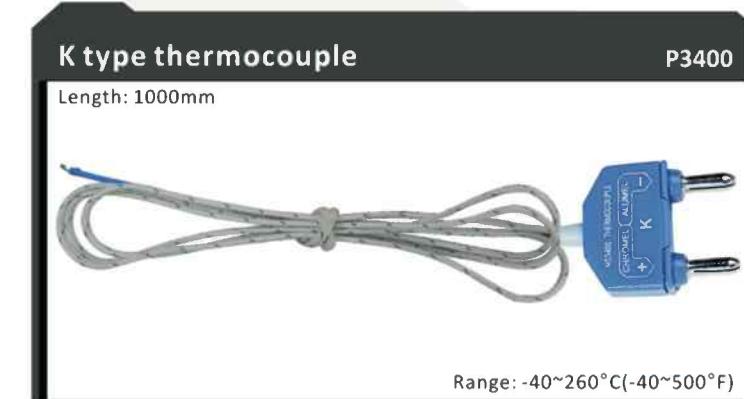
**Specifications****MS922D MS922E**

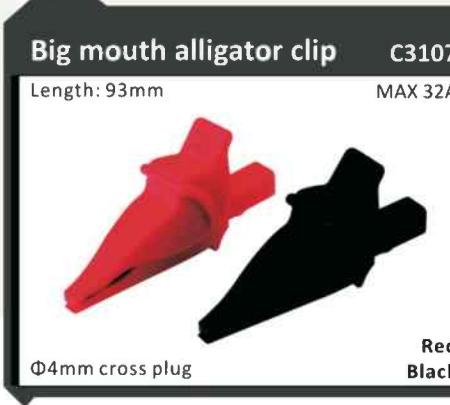
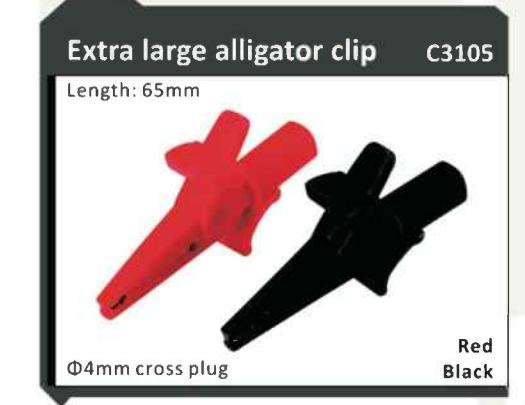
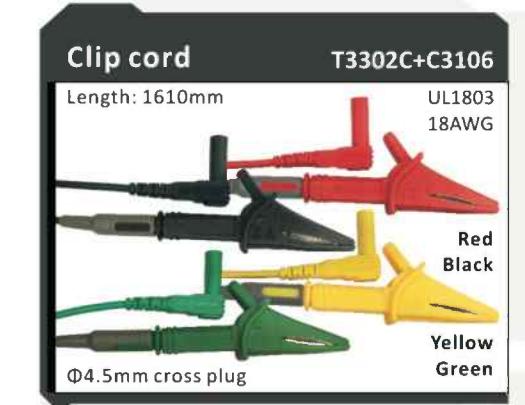
Specifications	Range		
AC Voltage	250V	●	●
AC Current	15A	●	●
X1 current terminal	Tests actual working current	●	●
X10 current terminal	Tests working current x10	●	●
Features			
Allows for Easy AC Current Measurements Using a Clamp Meter on 2 or 3 Wire Power Cords		●	●
Provides the Ability to Safely 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		●	●
General			
Product Size	200×57×48mm/7.8×2.2×1.9"	●	
	174×57×48mm/6.8×2.2×1.9"		●
Product Weight	140g/0.3lb	134g/0.29lb	
Safety Rating	CE(EMC+LVD) CAT.III 600V RoHS		



AC LINE SPLITTER MS921 / MS922D / MS922E



TEST LEADS**T3008U / T3009U / T3016U / T3030U.....****K TYPE THERMOCOUPLE****P3400 / P3401 / P3408A / P3408B.....**

CLIP & THERMOCOUPLE ADAPTER**C3104 / C3105 / C3106 / C3107 / C3108.....****DATA LINE & FUSE****R3403 / R3405 / R3415 / R3416 / R3417.....**

M	
• M266	67
• M266C	67
• M266F	67
• M300	29
• M300C	29
• M320	29
• M320C	29
• M9803R	66

MS	
• MS2026R	79
• MS2028A	71
• MS2028B	71
• MS2030	69
• MS2030A	69
• MS2030B	69
• MS2033C	70
• MS2108T	72
• MS2109A	73
• MS2125A	76
• MS2125B	76
• MS2128	72
• MS2128A	72
• MS2138	80
• MS2138R	80
• MS2140A	77
• MS2140B	77
• MS2140C	78
• MS2160	70
• MS2203	83
• MS2205	83
• MS2228	84
• MS2301	21
• MS2302	19
• MS2306	17-18
• MS2307	17-18
• MS2308	17-18
• MS2309	20
• MS2600	74
• MS2601	74
• MS3204	139
• MS3206	139
• MS3209	139
• MS3300	86
• MS3302	86
• MS5201	27
• MS5202	28
• MS5203	25
• MS5203A	25

MS	
• MS5205	26
• MS5208	64
• MS5209	22
• MS5215	23-24
• MS5308	114
• MS5900	105
• MS5901	105
• MS5902RTB	103
• MS5902RTC	103
• MS5902RTD	103
• MS5902 RTE	103
• MS5902RTF	103
• MS5905RTA	104
• MS5905RTC	104
• MS5905RTD	104
• MS5905RTF	104
• MS5908A	106
• MS5908C	106
• MS5910	107
• MS6013	113
• MS6100	65
• MS6208A	127
• MS6208B	127
• MS6252A	128
• MS6252B	128
• MS6300	135
• MS6310	132
• MS6414	129
• MS6416	129
• MS6418	129
• MS64100	129
• MS6450	130
• MS6500	96
• MS6501	96
• MS6503	100
• MS6505	100
• MS6508	95
• MS6511	97

MS	
• MS6512	97
• MS6513	98
• MS6513A	98
• MS6514	99
• MS6514A	99
• MS6518	87
• MS6520H	87
• MS6522A	89
• MS6522B	89
• MS6522C	89
• MS6530T	92
• MS6531A	90
• MS6531B	90
• MS6531C	90
• MS6532	91
• MS6532A	91
• MS6532B	91
• MS6541	92
• MS6542A	93
• MS6542B	93
• MS6552A	94
• MS6552B	94
• MS6580B	88
• MS6610	125
• MS6612	126
• MS6612T	126
• MS6700	133
• MS6701	133
• MS6702	134
• MS6708	134
• MS6810	120
• MS6811	120
• MS6812	121
• MS6813	122
• MS6818	123-124
• MS6860B	101
• MS6860C	101
• MS6860D	101
• MS6860E	101

MS	
• MS6900	131
• MS6900A	131
• MS7103	108
• MS7220	110
• MS7221	109
• MS7212	111
• MS8040	53
• MS8050	54
• MS8209	61
• MS8211	31
• MS8210D	31
• MS8212A	32
• MS8216	55
• MS8217	56
• MS8223A	32
• MS8228	62
• MS8229	44
• MS8229G	44
• MS8229N	44
• MS8233A	35
• MS8233B	35
• MS8233C	35
• MS8233D	36
• MS8233E	36
• MS8233Z	36
• MS8235	63
• MS8236	63
• MS8238	37
• MS8238A	37
• MS8238B	38
• MS8238C	38
• MS8238D	39
• MS8238G	37
• MS8239A	40
• MS8239B	40
• MS8239C	40
• MS8250A	49
• MS8250B	49
• MS8250D	49

MS	
• MS8250G	50
• MS8251A	51
• MS8251B	51
• MS8251C	51
• MS8261	59
• MS8264	59
• MS8265	60
• MS8268	60
• MS8269	59
• MS8301A	43
• MS8301B	43
• MS8321A	41
• MS8321B	41
• MS8321C	41
• MS8321D	42
• MS8321E	42
• MS8321F	42
• MS8332C	30
• MS8340A	52
• MS8340B	52
• MS8360C	47
• MS8360E	47
• MS8360F	48
• MS8360G	48
• MS8900A	115
• MS8900N	115
• MS8902A	116
• MS8902B	116
• MS8902H	116
• MS8904A	117
• MS8907	118
• MS8907H	118
• MS8910	112
• MS8910A	112
• MS8922A	119
• MS8922H	119
• MS921	136
• MS922D	136
• MS922E	136

MY	
• MY60	57
• MY61	57
• MY62	57
• MY63	58
• MY64	58
• MY65	58
• MY6243	113
• MY70	45
• MY74	45
• MY74B	45
• MY75	46
• MY78	46

P	
• P3400	138
• P3401	138
• P3408	138
• P3408B	138
• P3409A	138
• P3409B	138
• P3410	138
• P3412	138

T	
• T3008U	137
• T3009U	137
• T3016U	137
• T3060A	137
• T3060B	137
• T3022	137
• T3030U	137
• T3033U	137
• T3103	137