

DIGITAL MULTIMETERS

MS8221 / MS8221D / MS8230B

DIGITAL MULTIMETER

MS8221



MS8221D



MS8230B



Specifications	Range	Accuracy		
		MS8221	MS8221D	MS8230B
DC Voltage	200mV/2V/20V/200V/600V	± (0.7 % + 2)		
	200mV/2V/20V/200V/1000V		± (0.5 % + 1)	± (0.8 % + 3)
AC Voltage	200mV/2V/20V/200V/600V	± (0.8 % + 3)		
	200mV/2V/20V/200V/750V		± (0.8 % + 3)	
DC Current	200μA/2000μA/20mA/200mA	± (1.2 % + 3)	± (0.8 % + 1)	± (1.0 % + 2)
	10A	± (2.0 % + 10)	± (2.0 % + 5)	± (3.0 % + 2)
DC Current With Clamp(Optional)	200A/2000A	± (3.0 % + 3)		
AC Current	200μA/2000μA/20mA/200mA	± (1.5 % + 5)		
	2mA/20mA/200mA		± (1.2 % + 3)	
AC Current With Clamp(Optional)	10A	± (3.0 % + 10)	± (3.0 % + 5)	
	200A/2000A	± (3.5 % + 5)		
Resistance	200Ω/2KΩ/20KΩ/200KΩ/2MΩ/20MΩ	± (1.0 % + 3)	± (0.8 % + 3)	
	200Ω/2KΩ/20KΩ/200KΩ/2MΩ			± (1.0 % + 3)
Temperature(°C)	-20°C~1000°C	± (2 % + 2)		
Temperature(°F)	-4°F~1832°F	± (2 % + 4)		
Features				
Display		2000 counts	2000 counts	2000 counts
Auto Ranging		✓		
Manual Ranging		✓	✓	✓
Battery Test	3 Types: 1.5V, 3V, 9V	✓		
Transistor hFE	0~1000		✓	✓
Diode	2.7V	✓	✓	✓
Continuity Buzzer	<50Ω	✓	✓	✓
MAX		✓		
Data Hold		✓	✓	✓
Display Backlight		✓		
General				
Power Supply	3×1.5V AAA Batteries	✓	✓	✓
Product Size	158mm×74mm×31mm/6.2"×2.9"×1.2"	✓	✓	✓
Product Weight	220g/0.5lb	✓	✓	✓

DIGITAL MULTIMETERS

MAS830/MAS830B/MAS830L/MAS838

DIGITAL MULTIMETER

MAS830



MAS830B



MAS830L



MAS838



Specifications	Range	Accuracy			
		MAS830	MAS830B	MAS830L	MAS838
DC Voltage	200mV/2V/20V/200V	± (0.5 % + 3)	± (0.5 % + 3)	± (0.5 % + 3)	± (0.5 % + 3)
	600V	± (0.8 % + 5)	± (0.8 % + 5)	± (0.8 % + 5)	± (0.8 % + 5)
AC Voltage	200V/600V	± (1.2 % + 10)	± (1.2 % + 10)	± (1.2 % + 10)	± (1.2 % + 10)
DC Current	20μA/200μA/2mA/20mA/200mA	± (1.0 % + 3)	± (1.0 % + 3)	± (1.0 % + 3)	
	200μA/2mA/20mA/200mA				± (1.0 % + 3)
Resistance	10A	± (3.0 % + 10)	± (3.0 % + 10)	± (3.0 % + 10)	± (3.0 % + 10)
	200Ω/2KΩ/20KΩ/200KΩ	± (0.8 % + 2)	± (0.8 % + 2)	± (0.8 % + 2)	± (0.8 % + 2)
	2MΩ	± (1.0 % + 5)	± (1.0 % + 5)	± (1.0 % + 5)	± (1.0 % + 5)
Temperature(°C)	-20°C~1000°C				± (2 % + 2)
Features					
Display		2000 counts	2000 counts	2000 counts	2000 counts
Diode	2.7V	✓	✓	✓	✓
Continuity Buzzer	<50Ω	✓		✓	✓
Data Hold		✓	✓	✓	✓
Display Backlight				✓	
General					
Power Supply	1×9V 6F22/NEDA 1604 Battery	✓	✓	✓	✓
Product Size	138mm×69mm×31mm/5.4"×2.7"×1.2"	✓	✓	✓	✓
Product Weight	160g/0.4lb	✓	✓	✓	✓
Category	CAT.II 600V	CE	CE ETL	CE ETL	CE



EMC LVD

DIGITAL MULTIMETERS

MS8232A/MS8232B

ADVANCED 2000/4000 COUNTS AUTORANGING DIGITAL MULTIMETER

MS8232A



MS8232B



Specifications	Range	Accuracy	
		MS8232A	MS8232B
DC Voltage	200mV/2V/20V/200V	±(0.5% +3)	
	600V	±(0.8% +5)	
	400mV/4V/40V/400V		±(0.5% +3)
	600V		±(0.8% +5)
AC Voltage	2V/20V/200V	±(0.8% +3)	
	600V	±(1.0% +5)	
	4V/40V		±(1.0% +8)
	400V/600V		±(2.3% +10)
DC Current	200μA/2000μA/20mA/200mA	±(1.8% +5)	
	400μA/4000μA/40mA/400mA		±(1.8% +5)
AC Current	200μA/2mA/20mA/200mA	±(2.0% +8)	
	400μA/4000μA/40mA/400mA		±(2.0% +8)
Resistance	200Ω/2KΩ/20KΩ/200KΩ/2MΩ	±(1.0% +3)	
	20MΩ	±(1.2% +15)	
	400Ω/4kΩ/40KΩ/400KΩ/4MΩ		±(1.0% +3)
	40MΩ		±(1.2% +15)
Capacitance	4nF/40nF/400nF/4μF/40μF/100μF		±(5.0% +25)
Frequency	0~5MHz		±(1.5% +15)
Duty Cycle	0.5%~99.9%		±(2.0% +5)
Features			
Display		2000 Counts	4000 Counts
Auto Ranging	Auto	✓	✓
Auto Power Off		✓	✓
NCV	Non-Contact Voltage Detection	✓	✓
Diode	2.7V	✓	✓
Continuity Buzzer	<50Ω	✓	✓
Data Hold		✓	✓
Work Light		✓	✓
General			
Power Supply	2×1.5V AAA Batteries	✓	✓
Product Size	150mm×70mm×50mm/5.9"×2.8"×2.0"	✓	✓
Product Weight	238g/0.5lb	✓	✓
Category	CAT.III 600V	CE ETL	CE ETL

DIGITAL MULTIMETERS

M300/M320

ADVANCED POCKET DIGITAL MULTIMETER

M300



Specifications	Range	Accuracy	
		M300	M320
DC Voltage	2V	±(0.5% +3)	
	20V/200V/500V	±(0.8% +3)	
	400mV/4V		±(0.5% +3)
	40V/400V/600V		±(0.8% +3)
AC Voltage	200V/500V	±(1.2% +10)	
	4V/40V/400V/600V		±(0.8% +4)
DC Current	200mA	±(2.0% +2)	
	40mA/400mA		±(2.0% +3)
AC Current	40mA/400mA		±(3.0% +4)
Resistance	2KΩ/20KΩ/200KΩ/2MΩ	±(1.0% +2)	
	400Ω/4kΩ/40KΩ/400KΩ/4MΩ		±(1.0% +3)
Capacitance	4nF/40nF/400nF/4μF/40μF/100μF		±(3.0% +3)
Frequency	0~100kHz		±(0.5% +3)
Features			
Display	Counts	2000	4000
Auto Ranging	Auto		✓
Auto Power Off			✓
Diode	2.7V	✓	✓
Continuity Buzzer	<50Ω	✓	✓
Data Hold			✓
General			
Power Supply	3V Battery, SR44 or LR44 X 2	✓	✓
Product Size	120mm×70mm×18mm/4.7"×2.7"×0.7"	✓	✓
Product Weight	110g/0.2lb	✓	✓
Category	CAT.II 600V	CE ETL	CE ETL



M320



DIGITAL MULTIMETERS

MS8211/MS8211D

PEN-TYPE AUTORANGING DIGITAL MULTIMETER WITH NCV DETECTOR



MS8211



MS8211D



Specifications	Range	Accuracy	
		MS8211	MS8211D
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)
Resistance	200Ω	±(1.0% +3)	±(1.0% +3)
	2KΩ/20KΩ/200KΩ/2MΩ	±(1.0% +1)	±(1.0% +1)
	20MΩ	±(1.0% +5)	±(1.0% +5)
Features			
Display	Counts	2000	2000
Auto Ranging		✓	✓
Manual Ranging		✓	✓
NCV	Non-Contact AC Voltage Detection: >50V AC	✓	✓
Logic Level Test	>3.5V: High Level; <3.5V: Low Level	✓	✓
APO	Auto Power Off	✓	✓
Diode	2.7V	✓	✓
Continuity Buzzer	<50Ω	✓	✓
MAX	Maximum Value Hold	✓	✓
Data Hold		✓	✓
Retractable Tip	Retractable Tip for Safe Storage	✓	✓
General			
Power Supply	2×1.5 AAA Batteries	✓	✓
Product Size	208mm×38mm×29mm/8.2"×1.5"×1.1"	✓	✓
Product Weight	110g/0.2lb	✓	✓
Category	CAT.III 600V	CE ETL	CE ETL



DIGITAL CLAMP METERS

MS2203

THREE PHASE DIGITAL POWER CLAMP METER



MS2203



Specifications	Range	Accuracy
AC Voltage(V)	0.1V~600V	±(1.2% +5)
AC Current(A)	0.1A~1000A	±(2% +5)
Active Power(kW)	0.01kW~600kW	±(3% +5)
Apparent Power(kVA)	0.01kVA~600kVA	±(3% +5)
Reactive Power(kVAr)	0.01kVAr ~ 600kVAr	±(4% +5)
Power Factor(PF)	0.3~1	±(2% +2)
Active Energy(kWh)	0.001kWh ~ 10000kWh	±(3% +2)
Frequency(Hz)	20Hz ~ 1000Hz	±0.5%
Features		
Display	9999 counts	
Jaw Opening	Φ50mm/2.0"	
Auto Ranging	✓	
Data Logging	28 groups	
True RMS	True Root Mean Square Measurement	
MAX/MIN	✓	
Data Hold	✓	
Display Backlight	✓	
USB Interface	Windows OS	
General		
Power Supply	4x1.5V AA	
Product Size	300mmx103mmx51mm	
	11.8"×4.1"×2.0"	
Product Weight	500g	
	5.5lb	
Category	CE CAT.III 600V	

DIGITAL CLAMP METERS

MS2205

HARMONIC POWER CLAMP METER



Specifications	Range	Accuracy
AC Voltage(V)	0.1V ~ 600V	± (1.0% +5)
AC Current(A)	0.01A ~ 1000A	± (2.0% +5)
Active Power(kW)	0.01kW ~ 600kW	± (3.0% +5)
Apparent Power(kVA)	0.001kVA ~ 600kVA	± (3.0% +5)
Reactive Power(kVAr)	0.001kVAr ~ 600kVAr	± (3.0% +5)
Power Factor	0.3 ~ 1	± (2.0% +2)
Harmonic Measurement 45hz~65hz(fundamental frequency)	Harmonic Number :1	± (3.0% +10)
	Harmonic Number :2-6	± (3.5% +10)
	Harmonic Number :7-8	± (4.5% +10)
	Harmonic Number :9-10	± (5.0% +10)
	Harmonic Number :11-15	± (7.0% +10)
	Harmonic Number :16-20	± (10% +10)
Features		
Display	6000 counts	
Jaw Opening	Φ50mm/2.0"	
Auto Ranging	✓	
Data Logging	100 groups	
True RMS	True Root Mean Square Measurement	
Data Hold	✓	
Display Backlight	✓	
RS232 Interface	Windows OS	
General		
Power Supply	4x1.5V AA Batteries	
Product Size	300mmx103mmx51mm	
	11.8"×4.1"×2.0"	
Product Weight	500g	
	1.1lb	
Category	CE CAT.III 600V	

DIGITAL CLAMP METERS

MS2208

HARMONIC POWER CLAMP METER



Specifications	Range	Accuracy
AC Voltage(TRMS)	10V ~ 600V	± (1% +5)
AC Current(TRMS)	2mA ~ 3999mA	± (2% +5)
	4A ~ 200A	± (2% +5)
Single Phase Active Power(kW)	0.1W ~ 120KW	± (3% +5)
Single Phase Apparent Power(kVA)	0.01kVA ~ 120kVA	± (3% +5)
Single Phase Reactive Power(kVAr)	0.01kVAr ~ 120kVAr	± (3% +5)
Power Factor	0.3~1 capacitive	± (2% +2)
	0.3~1 inductive	± (2% +2)
Frequency(Hz)	30Hz~1kHz	± (0.5% +1)
Harmonic Measurement	Harmonic Number: 1	± (3.0% +10)
	Harmonic Number: 2~6	± (3.5% +10)
	Harmonic Number: 7~8	± (4.5% +10)
	Harmonic Number: 9~10	± (5.0% +10)
	Harmonic Number: 11~15	± (7.0% +10)
	Harmonic Number: 16~20	± (10% +10)
Features		
Display	6000 counts	
Jaw Opening	Φ26mm/1.0"	
Auto Ranging	✓	
MAX/MIN	MAX/MIN Measurement Mode	
Work Light	Pointing To The Target Area	
Display Backlight	✓	
General		
Power Supply	3x1.5V AAA Batteries	
Product Size	208mmx78mmx35mm	
	8.2"×3.1"×1.4"	
Product Weight	350g	
	0.8lb	
Category	CE ETL CAT.III 600V	

DIGITAL CLAMP METERS

MS2006B/MS2007B

HIGH SENSITIVITY AC LEAKAGE CLAMP METER

MS2006B



MS2007B



Specifications	Range	Accuracy	
		MS2006B	MS2007B
AC Current (50Hz~60Hz)	2mA/20mA/60A	±(2.0%+5)	
	200mA/2A/150A		±(2.0%+5)
Features			
Display		2000 Counts	2000 counts
Jaw Opening		Φ31mm/1.2"	Φ31mm/1.2"
Data Hold		✓	✓
Low Battery Display		✓	✓
General			
Power Supply	2x1.5V AAA Batteries	✓	✓
Product Size	176mmx59mmx29mm	✓	✓
	6.9"×2.3"×1.1"	✓	✓
Product Weight	150g/0.3lb	✓	✓
Category	CAT.III 600V	CE	CE

DIGITAL CLAMP METERS

MS2010B

HIGH SENSITIVITY LEAKAGE CLAMP METER

MS2010B



Specifications	Range	Accuracy
DC Voltage	400mV/4V/40V/400V	±(0.7%+3)
	600V	±(1.0%+5)
AC Voltage	400mV/4V/40V/400V	±(0.8%+5)
	600V	±(1.2%+5)
AC Current	40mA/400mA/4A/40A/400A	±(1.0%+8)
	600A	±(2.0%+3)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	±(1.0%+2)
	40MΩ	±(2.0%+5)
Capacitance	40nF/400nF/4μF/40μF/100μF	±(4.0%+25)
Frequency (From Clamp)	0~2KHz	±(1.5%+5)
Frequency (From Plug)	0~100KHz	±(1.5%+5)
Duty Cycle	10%~90%	±3.0%
Thermocouple(°C/°F)	-20°C~1000°C	±2.0%
	-4°F~1832°F	±2.0%
Features		
Display	4000 counts	
Jaw Opening	Φ31mm/1.2"	
Auto Ranging	✓	
Manual Ranging	✓	
Auto Power Off	✓	
LPF	Low Pass Filter Function	
Relative Measurement	✓	
Diode	2.7V	
Continuity Buzzer	<50Ω	
Data Hold	✓	
Display Backlight	✓	
Low Battery Display	✓	
General		
Power Supply	3x1.5V AAA Batteries	
Product Size	260mmx92mmx55mm	
	10.2"×3.6"×2.2"	
Product Weight	400g	
	0.9lb	
Category	CE ETL CAT.III 600V	

DIGITAL CLAMP METERS

MS2026/MS2026R

AC CLAMP METER



MS2026R



Specifications	Range	Accuracy	
		MS2026	MS2026R
DC Voltage	600mV/6V/60V	±(0.7% +3)	±(0.7% +3)
	600V	±(0.8% +2)	±(0.8% +2)
AC Voltage	6V/60V	±(0.8% +3)	±(0.8% +3)
	600V	±(1% +4)	±(1% +4)
AC Current	6A/60A/600A/1000A	±(2.0% +6)	±(2.0% +6)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(0.8% +3)	±(0.8% +3)
	60MΩ	±(1.2% +3)	±(1.2% +3)
Capacitance	40nF/400nF/4μF/40μF/400μF/4000μF	±(4.0% +5)	±(4.0% +5)
Frequency (From Clamp)	0~1KHz	±(1.5% +5)	±(1.5% +5)
Frequency (From Plug)	0~10MHz	±(0.5% +3)	±(0.5% +3)
Duty Cycle	10%~90%	±3.0%	±3.0%
Features			
Display	Counts	6000	6000
Jaw Opening		Φ40mm/1.6"	Φ40mm/1.6"
Auto Ranging		✓	✓
Manual Ranging		✓	✓
Auto Power Off		✓	✓
Diode	2.7V	✓	✓
Continuity Buzzer	<50Ω	✓	✓
MAX/MIN		✓	✓
Data Hold		✓	✓
Low Battery Display		✓	✓
Display Backlight		✓	✓
Work Light		✓	✓
True RMS	True Root Mean Square Measurement		✓
General			
Power Supply	3x1.5V AAA Batteries	✓	✓
Product Size	225mmx86mmx33mm/ 8.9"×3.4"×1.3"	✓	✓
Product Weight	320g/0.7lb	✓	✓
Category	CAT.III 600V	CE	CE

DIGITAL CLAMP METERS

MS2138/MS2138R

AC/DC CLAMP METER



MS2138R



Specifications	Range	Accuracy	
		MS2138	MS2138R
DC Voltage	400mV/4V/40V/400V	±(0.7% +3)	±(0.7% +3)
	600V	±(0.8% +2)	±(0.8% +2)
AC Voltage	4V/40V/400V	±(0.8% +3)	±(0.8% +3)
	600V	±(1% +4)	±(1% +4)
AC Current	40A/400A/1000A	±(2.5% +6)	±(2.5% +6)
DC Current	40A/400A/1000A	±(3.0% +6)	±(3.0% +6)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	±(0.8% +3)	±(0.8% +3)
	40MΩ	±(1.2% +3)	±(1.2% +3)
Capacitance	40nF/400nF/4μF/40μF/400μF/4000μF	±(4.0% +5)	±(4.0% +5)
Frequency (From Clamp)	0~1KHz	±(1.5% +5)	±(1.5% +5)
Frequency (From Plug)	0~10MHz	±(0.5% +3)	±(0.5% +3)
Duty Cycle	10%~90%	±3.0%	±3.0%
Features			
Display	Counts	4000	4000
Jaw Opening		Φ40mm/1.6"	Φ40mm/1.6"
Auto Ranging		✓	✓
Manual Ranging		✓	✓
Auto Power Off		✓	✓
Diode	2.7V	✓	✓
Continuity Buzzer	<50Ω	✓	✓
REL	Relative measurement	✓	✓
Data Hold		✓	✓
Low Battery Display		✓	✓
Display Backlight		✓	✓
Work Light		✓	✓
True RMS	True root mean square measurement		✓
General			
Power Supply	3x1.5V AAA Batteries	✓	✓
Product Size	225mmx84mmx33mm/ 8.9"×3.3"×1.3"	✓	✓
Product Weight	320g	✓	✓
	0.7lb	✓	✓
Category	CAT.III 600V	CE	CE

DIGITAL CLAMP METERS

MS2008A/MS2008B

AC MINI DIGITAL CLAMP METER



MS2008B



Specifications	Range	Accuracy	
		MS2008A	MS2008B
DC Voltage	200mV/2V/20V/200V	±(0.8% +2)	
	600V	±(1.0% +2)	
	400mV/4V/40V/400V		±(0.8% +2)
	600V		±(1.0% +2)
AC Voltage	2V/20V/200V	±(1.0% +5)	
	600V	±(1.2% +5)	
	400mV/4V/40V/400V		±(1.0% +10)
	600V		±(1.2% +10)
AC Current	2A/20A	±(3.0% +10)	
	200A	±(2.5% +10)	
	4A/40A/400A		±(2.5% +10)
	600A	±(1.5% +5)	±(1.5% +5)
Resistance	200Ω/2KΩ/20KΩ/200KΩ/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(°C)	-20°C~ 750°C		±(2% +2)
Features			
Display	Counts	2000	4000
Jaw Opening		Φ26mm/1.0"	Φ26mm/1.0"
Auto Ranging		✓	✓
Manual Ranging		✓	✓
Auto Power Off		✓	✓
Diode	2.7V	✓	✓
Continuity Buzzer	<50Ω	✓	✓
MAX		✓	✓
Data Hold		✓	✓
Work Light		✓	✓
Display Backlight		✓	✓
General			
Power Supply	3x1.5V AAA Batteries	✓	✓
Product Size	208mmx78mmx35mm/ 8.2''×3.1''×1.4''	✓	✓
Product Weight	340g	✓	✓
	0.7lb	✓	✓
Category	CAT.III 600V	CE ETL	CE ETL

DIGITAL CLAMP METERS

MS2107

AC/DC MINI-JAW CLAMP METER



Specifications	Range	Accuracy
DC Voltage	400mV/4V/40V/400V/600V	±(0.8% +3)
AC Voltage	400mV/4V/40V/400V/600V	±(1.0% +3)
DC Current	4A/40A	±(2.5% +3)
AC Current	4A/40A	±(2.5% +3)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	±(0.8% +3)
	40MΩ	±(1.2% +3)
Features		
Display	4000 counts	
Jaw Opening	Φ12.5mm/0.5"	
Auto Ranging	✓	
Manual Ranging	✓	
Auto Power Off	✓	
NCV	Non-Contact Voltage Detection	
Diode	2.7V	
Continuity Buzzer	<50Ω	
Zero	Zero Adjustment for DC Current Measurement	
Data Hold	✓	
Display Backlight	✓	
Low Battery Display	✓	
Work Light	✓	
General		
Power Supply	3x1.5V AAA Batteries	
Product Size	213mmx78mmx35mm/8.4''×3.1''×1.4''	
Product Weight	310g/0.8lb	
Category	CE CAT.III 600V	

DIGITAL CLAMP METERS

MS2108/MS2108A

AC/DC MINI DIGITAL CLAMP METER



MS2108



MS2108A



Specifications	Range	Accuracy	
		MS2108	MS2108A
DC Voltage	660mV/6.6V	±(0.8% +3)	
	66V/600V	±(1.0% +5)	
	400mV/4V		±(0.8% +3)
	40V/400V/1000V		±(1.0% +5)
AC Voltage	660mV	±(1.5% +10)	
	6.6V/66V	±(1.2% +5)	
	600V	±(1.5% +10)	
	4V/40V/400V		±(0.8% +3)
DC Current	66A/600A	±(3.0% +10)	
	40A/400A		±(2.0% +6)
AC Current	66A/600A	±(3.0% +10)	
	40A/400A		±(2.0% +6)
Inrush Current (100ms)	66A/600A	±(10% +60)	
Resistance	660Ω/6.6kΩ/66kΩ/660kΩ/6.6MΩ	±(1.2% +2)	
	66MΩ	±(2.0% +5)	
	400Ω/4kΩ/40kΩ/400KΩ		±(0.8% +3)
	4MΩ/40MΩ		±(1.2% +3)
Capacitance	6.6μF/66μF/660μF/6.6mF/66mF	±(4.0% +3)	
	400nF/4μF/40μF/400μF/4000μF		±(4.0% +5)
Frequency (From Clamp)	0~1KHz	±(1.5% +5)	
	0~10KHz		±(1.5% +5)
Frequency (From Plug)	0~10KHz	±(1.5% +5)	
	0~10MHz		±(1.5% +5)
Duty Cycle	10%~90%	±3.0%	±3.0%
Features			
Display	Counts	6600	4000
Jaw Opening		Φ26mm/1.0"	Φ26mm/1.0"
Auto Ranging		✓	✓
Manual Ranging		✓	✓
Auto Power Off		✓	✓
Inrush	Integration Time: 100ms	✓	
True RMS	True Root Mean Square Measurement	✓	
REL	Relative Measurement		✓
Diode	2.7V	✓	✓
Continuity Buzzer	<50Ω	✓	✓
MAX/MIN		✓	✓
Data Hold		✓	✓
Low Battery Display		✓	✓
Display Backlight		✓	✓
Work Light		✓	✓
General			
Power Supply	3×1.5V AA Batteries	✓	✓
Product Size	mm	208mm×78mm×35mm/	
	Inch	8.2"×3.1"×1.4"	
Product Weight		340g/0.7lb	✓
Category	CAT.III 600V	CE ETL	CE ETL

DIGITAL CLAMP METERS

MS2015A/MS2015B

AC CLAMP METER



Specifications	Range	Accuracy	
		MS2015A	MS2015B
DC Voltage	60mV/600mV/6V/60V/600V	±(0.7% +3)	
	600mV/6.6V/66V/660V		±(0.5% +3)
	1000V	±(0.8% +2)	±(0.8% +2)
AC Voltage	60mV/600mV/6V/60V/600V	±(0.8% +3)	
	600mV/6.6V/66V/660V		±(0.8% +3)
	750V	±(1% +4)	±(1% +4)
AC Current	60A/600A/1000A	±(2.0% +6)	
Resistance	66A/660A/1000A		±(2.0% +3)
	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(0.8% +3)	
	60MΩ	±(1.2% +3)	
	660Ω/6.6kΩ/66kΩ/660kΩ/6.6MΩ		±(1.0% +3)
Capacitance	10nF/100nF/1000nF/10μF/100μF/1000μF/10mF/100mF	±(4.0% +5)	
	6.6nF/66nF/660nF/6.6μF/66μF/660μF/6.6mF/66mF		±(4.0% +3)
Frequency (From Clamp)	0~10KHz	±(1.5% +5)	±(1.5% +5)
Frequency (AC Voltage)	0~10KHz	±(1.5% +5)	±(1.5% +5)
Logic Frequency	0~10MHz	±(0.5% +3)	
	0~66MHz		±(0.5% +3)
Duty Cycle	10%~90%	±3.0%	±3.0%
Temperature(°C)	-20°C~1000°C		±(2% +4)
Temperature(°F)	-4°F~1832°F		±(2% +4)
Features			
Display	Counts	6000	6600
Jaw Opening		Φ40mm/1.6"	Φ40mm/1.6"
Auto Ranging		✓	✓
Manual Ranging		✓	✓
Auto Power Off		✓	✓
REL	Relative Measurement	✓	✓
Diode	2.7V	✓	✓
Continuity Buzzer	<50Ω	✓	✓
MAX/MIN		✓	✓
Data Hold		✓	✓
Display Backlight		✓	✓
Low Battery Display		✓	✓
Work Light		✓	✓
True RMS	True Root Mean Square Measurement	✓	
NCV	Non-Contact Voltage Detector	✓	✓
General			
Power Supply	1×9V 6F22 Battery	✓	✓
Product Size	mm	238×92×50	238×92×50
	Inch	9.4"×3.6"×2.0"	9.4"×3.6"×2.0"
Product Weight		340g	340g
		0.7lb	0.7lb
Category	CAT.III 1000V CAT.IV 600V	CE	CE

MS2015A



MS2015B



DIGITAL CLAMP METERS

MS2115A/MS2115B

AC/DC CLAMP METER



MS2115A



MS2115B



Specifications	Range	Accuracy	
		MS2115A	MS2115B
DC Voltage	60mV/600mV/6V/60V/600V	±(0.7% +3)	
	600mV/6V/60V/600V		±(0.5% +3)
	1000V	±(0.8% +2)	±(0.8% +2)
AC Voltage	60mV/600mV/6V/60V/600V	±(0.8% +3)	
	600mV/6V/60V/600V		±(0.8% +3)
	750V	±(1% +4)	±(1% +4)
DC Current	60A/600A/1000A	±(2.5% +6)	±(3.0% +3)
AC Current	60A/600A/1000A	±(2.5% +6)	±(2.5% +3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(0.8% +3)	±(1.0% +3)
	60MΩ	±(1.2% +3)	±(1.5% +3)
Capacitance	10nF/100nF/1000nF/10μF/100μF/1000μF/10mF/100mF	±(4.0% +5)	
	6nF/60nF/600nF/6μF/60μF/600μF/6mF/60mF		±(4.0% +3)
Frequency (From Clamp)	0~10KHz	±(1.5% +5)	±(1.5% +5)
Frequency (AC Voltage)	0~10KHz	±(1.5% +5)	±(1.5% +5)
Logic Frequency	0~10MHz	±(0.5% +3)	
	0~60MHz		±(0.5% +3)
Duty Cycle	10%~90%	±3.0%	±3.0%
Features			
Display	Counts	6000	6000
Jaw Opening		Φ40mm/1.6"	Φ40mm/1.6"
Auto Ranging		✓	✓
Manual Ranging		✓	✓
Auto Power Off		✓	✓
REL	Relative Measurement	✓	✓
Diode	2.7V	✓	✓
Continuity Buzzer	<50Ω	✓	✓
MAX/MIN		✓	✓
Data Hold		✓	✓
Display Backlight		✓	✓
Low Battery Display		✓	✓
Work Light		✓	✓
True RMS	True Root Mean Square Measurement	✓	✓
NCV	Non-Contact Voltage Detector	✓	✓
Inrush	Inrush Current Measurement	✓	✓
USB interface	Windows OS		✓
General			
Power Supply	1×9V 6F22 Battery	✓	✓
Product Size	mm	238×92×50	238×92×50
	Inch	9.4"×3.6"×2.0"	9.4"×3.6"×2.0"
Product Weight		400g	400g
		0.9lb	0.9lb
Category	CAT.III 1000V CAT.IV 600V	CE	CE

DIGITAL CLAMP METERS

MS2001/MS2001C/MS2101

DIGITAL CLAMP METER



Specifications	Range	Accuracy		
		MS2001	MS2001C	MS2101
DC Voltage	400mV/4V/40V/400V			±(0.8% +1)
	1000V	±(1.0% +2)	±(1.0% +2)	±(1.0% +2)
AC Voltage	4V/40V/400V/700V			±(1.0% +5)
	750V	±(1.0% +5)	±(1.0% +5)	
DC Current	400A/1000A			±(3.0% +3)
AC Current	20A/200A	±(2.0% +5)	±(2.0% +5)	
	1000A	±(2.0% +7)	±(2.0% +7)	
Resistance	400A/1000A			±(3.0% +3)
	200Ω/2000Ω	±(1.0% +3)	±(1.0% +3)	
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ			±(1.2% +1)
Capacitance	40MΩ			±(2.0% +3)
	4nF/40nF/400nF/4μF/40μF			±(4.0% +10)
Frequency	40Hz/400Hz/4kHz/40kHz/100kHz			±(2.0% +1)
Duty Cycle	1%~99%			±(2.0% +1)
Temperature(°C)	-40°C~750°C		±(1% +5)	±(1% +5)
Features				
Display	Counts	2000	2000	4000
Jaw Opening		Φ42mm/1.7"	Φ42mm/1.7"	Φ42mm/1.7"
Auto Ranging	Auto			✓
REL	Relative Measurement			✓
Diode	2.7V	✓		✓
Continuity Buzzer	<50Ω	✓	✓	✓
Data Hold		✓	✓	✓
Display Backlight		✓	✓	
General				
Power Supply		1×9V 6F22	1×9V 6F22	1×9V 6F22
Product Size	mm	250×99×43	250×99×43	250×99×43
	Inch	9.8"×3.9"×1.7"	9.8"×3.9"×1.7"	9.8"×3.9"×1.7"
Product Weight		480g/1.1lb	480g/1.1lb	480g/1.1lb
Category	CAT.II 1000V	CE	CE	CE

MS2001



MS2001C



MS2101



DIGITAL CLAMP METERS

M266/M266C/M266F

AC DIGITAL CLAMP METER



M266



M266C



M266F



Specifications	Range	Accuracy		
		M266	M266C	M266F
DC Voltage	200mV		±(0.5% +1)	
	2V/20V/200V		±(0.5% +3)	±(0.5% +3)
	1000V	±(0.8% +3)	±(0.8% +3)	±(0.8% +3)
AC Voltage	200V		±(1.0% +5)	±(1.0% +5)
	750V	±(1.2% +5)	±(1.2% +5)	±(1.2% +5)
AC Current	20A		±(4.0% +5)	
	200A	±(2.5% +5)	±(2.5% +5)	±(2.5% +5)
	1000A	±(3.0% +10)	±(3.0% +10)	±(3.0% +10)
Resistance	200Ω/20KΩ	±(1.0% +8)		
	200Ω/2kΩ/20KΩ/200kΩ/2MΩ			±(1.0% +8)
	200Ω/20KΩ/2MΩ		±(1.0% +8)	
Frequency	2kHz			±(2.0% +5)
Temperature(°C)	0°C~ 750°C		±(2.0% +2)	
Temperature(°F)	32°F~ 1400°F		±(2.0% +4)	
Features				
Display	Counts	2000	2000	2000
Jaw Opening		Φ50mm/2.0"	Φ50mm/2.0"	Φ50mm/2.0"
Insulation Test	With optional 500V insulation tester unit	✓	✓	✓
Diode	2.7V			✓
Continuity Buzzer	<50Ω	✓	✓	✓
Data Hold		✓	✓	✓
General				
Power Supply	1×9V 6F22 Battery	✓	✓	✓
Product Size	mm	235×96×46	235×96×46	235×96×46
	Inch	9.3"×3.8"×1.8"	9.3"×3.8"×1.8"	9.3"×3.8"×1.8"
Product Weight		330g/0.7lb	330g/0.7lb	330g/0.7lb
Category	CAT.II 1000V	CE ETL		CE ETL

DIGITAL CLAMP METERS

MS2600

DIGITAL OPEN JAW CLAMP METER



MS2600



Specifications	Range	Accuracy
DC Voltage	4V/40V/400V	±(0.7% +1)
	1000V	±(0.8% +3)
AC Voltage	4V/40V/400V	±(0.8% +5)
	700V	±(1.0% +10)
AC Current	200A	±(3.0% +3)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	±(1.2% +1)
	40MΩ	±(2.0% +3)
Capacitance	40nF/400nF/4μF/40μF	±(4.0% +10)
Frequency	0~100KHz	±(2.0% +1)
Duty Cycle	10%~ 90%	±3.0%
Features		
Display	4000 counts	
Jaw Opening	Φ12mm/0.5"	
Auto Ranging	✓	
Manual Ranging	✓	
Auto Power Off	✓	
REL	Relative Measurement	
Diode	2.7V	
Continuity Buzzer	<50Ω	
Data Hold	✓	
Display Backlight	✓	
Low Battery Display	✓	
General		
Power Supply	1×9V 6F22 Battery	
Product Size	192mmx68mmx43mm/7.6"×2.7"×1.7"	
Product Weight	230g/0.5lb	
Category	CE ETL CAT.III 600V	

DIGITAL CLAMP METERS

MS3300/MS3302

AC/DC CLAMP TRANSDUCER

MS3300



Specifications	Range	Accuracy	
		MS3300	MS3302
DC Current	2000A	± (3.0% +5)	
AC Current	2000A (TRMS)	± (3.0% +5)	
	600A		± (2.0% +5)
Features			
Jaw Opening		Φ55mm	Φ28mm
Output		1mV DC/1A DC	40A : 1mV/0.1AC
		1mV DC/1A AC	400A: 1mV/1AC
General			
Power Supply		1×9V 6F22	N/A
Product Size	mm	256×104×47	143×64×30
	Inch	10.1"×4.1"×1.9"	5.6"×2.5"×1.2"
Product Weight		520g/1.1lb	185g/0.4lb
Category	CAT.II 600V	CE	CE

MS3302



INFRARED THERMOMETERS

MS6540A/MS6540B

NON-CONTACT INFRARED THERMOMETERS



Specifications	MS6540A	MS6540B
Temperature Range	-32°C~850°C	-32°C~1050°C
	-25°F~1562°F	-25°F~1922°F
Temperature Accuracy	>510°C	±1.5%
	50°C~510°C	±(1.5%+1°C)
	15°C~50°C	±(1.5%+2°C)
	-32°C~15°C	±3°C
Temperature Resolution	±0.1°C/±0.1°F	±0.1°C/±0.1°F
Repeatability	±0.5°C or ±0.5%	±0.5°C or ±0.5%
Distance to Spot (D : S)	30:1	30:1
°C/°F Selection	✓	✓
Emissivity	Digitally Adjustable from 0.10 to 1.00 by 0.01	
Response Time	500ms	500ms
Laser Target Pointer	✓	✓
Data Logging	100 groups	100 groups
Reading Hold	✓	✓
MAX, MIN,DIF,AVG	✓	✓
Temperature Alarm Setting	✓	✓
Display Backlight	✓	✓
Low Battery Display	✓	✓
General Characteristic		
Power Supply	1×9V 6F22 Battery	1×9V 6F22 Battery
Product Size	140mm×56mm×190mm/ 5.5"×2.2"×7.5"	140mm×56mm×190mm/ 5.5"×2.2"×7.5"
Product Weight	500g/1.1lb	500g/1.1lb
Certificate	CE	CE



MS6540A



MS6540B

INFRARED THERMOMETERS

MS6550A/MS6550B

NON-CONTACT INFRARED THERMOMETERS



MS6550A



MS6550B



Specifications	MS6550A	MS6550B
Temperature Range	-32°C~1220°C	-32°C~1650°C
	-25°F~2192°F	-25°F~3002°F
Temperature Accuracy	>510°C	>510°C
	±1.5%	±1.5%
	50°C~510°C	±(1.5%+1°C)
	50°C~510°C	±(1.5%+1°C)
	15°C~50°C	±(1.5%+2°C)
	15°C~50°C	±(1.5%+2°C)
	-32°C~15°C	±3°C
	-32°C~15°C	±3°C
Temperature Resolution	±0.1°C/±0.1°F	±0.1°C/±0.1°F
Repeatability	±0.5°C or ±0.5%	±0.5°C or ±0.5%
Distance to Spot (D : S)	50:1	50:1
°C/°F Selection	✓	✓
Emissivity	Digitally Adjustable From 0.10 to 1.00 By 0.01	
Response Time	500ms	500ms
Laser Target Pointer	✓	✓
Data Logging	100 Groups	100 Groups
Reading Hold	✓	✓
MAX, MIN, DIF, AVG	✓	✓
Temperature Alarm Setting	✓	✓
Display Backlight	✓	✓
Low Battery Display	✓	✓
K-type Temperature Range	-40°C~1370°C	-40°C~1370°C
	-40°F~2498°F	-40°F~2498°F
K-type Temperature Accuracy	±(1.5%+1°C)	±(1.5%+1°C)
USB Interface (Windows OS)	✓	✓
General Characteristic		
Power Supply	1×9V 6F22 Battery	1×9V 6F22 Battery
Product Size	140mm×56mm×190mm/ 5.5"×2.2"×7.5"	140mm×56mm×190mm/ 5.5"×2.2"×7.5"
Product Weight	500g/1.1lb	500g/1.1lb
Certificate	CE	CE

INFRARED THERMOMETERS

MS6520A/MS6520B/MS6520C

NON-CONTACT INFRARED THERMOMETERS



Specifications	MS6520A	MS6520B	MS6520C (Surface + Human Body)
Temperature Range	-20°C~300°C	-20°C~500°C	Surface: 0°C~100°C
	±(1.5%+2°C)	±(1.5%+2°C)	±(1.5%+2°C)
	-4°F~572°F	-4°F~932°F	32°F~212°F±(1.5%+4°F)
	±(1.5%+4°F)	±(1.5%+4°F)	Body: 30°C~42°C±(0.5°C)
			86°F~108°F±(0.9°F)
Temperature Resolution	±0.1°C / ±0.1°F	±0.1°C / ±0.1°F	±0.1°C / ±0.1°F
Repeatability	±1°C	±1°C	±1°C / Body: ±0.1°C
Distance to Spot (D : S)	10 : 1	10 : 1	10 : 1 / Body: 5~15cm Distance
°C / °F Selection	✓	✓	✓
Emissivity	0.95	0.95	0.95
Response Time	1 second	1 second	1 second
Laser Target Pointer	✓	✓	✓
Reading Hold	✓	✓	✓
MAX, MIN, AVG	✓	✓	only MAX
Display Backlight	✓	✓	✓
Low Battery Display	✓	✓	✓
General			
Power Supply	1×9V 6F22 Battery	1×9V 6F22 Battery	1×9V 6F22 Battery
Product Size	142mm×92mm×47mm/ 5.6"×3.6"×1.9"	142mm×92mm×47mm/ 5.6"×3.6"×1.9"	142mm×92mm×47mm/ 5.6"×3.6"×1.9"
Product Weight	135g/0.3lb	135g/0.3lb	135g/0.3lb
Category	CE	CE	CE



MS6520A



MS6520B



MS6520C