



### DIGITAL MULTIMETER MS8251A / MS8251B / MS8251C



#### MS8251A

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



#### MS8251B

TRMS Low Z



#### MS8251C

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



#### Specifications MS8251A MS8251B MS8251C

Specifications	Range	Accuracy	MS8251A	MS8251B	MS8251C
DC Voltage	400mV	±(0.8%+3)			
	4V/40V/400V	±(0.5%+5)			
	1000V	±(0.8%+3)			
	660mV	±(0.8%+3)	±(0.8%+3)		
AC Voltage	6.6V/66V/660V	±(0.5%+5)	±(0.5%+5)		
	1000V	±(0.8%+3)	±(0.8%+3)		
	400mV(40~60Hz)	±(1.5%+5)	±(1.5%+5)		
	4V/40V(40~400Hz)	±(1.2%+5)	±(1.2%+5)		
	400V/1000V(40~400Hz)	±(1.0%+3)	±(1.0%+3)		
	660mV(40~60Hz)	±(1.5%+5)	±(1.5%+5)		
DC Current	6.6V/66V(40~400Hz)	±(1.2%+5)	±(1.2%+5)		
	660V/1000V(40~400Hz)	±(1.0%+3)	±(1.0%+3)		
	400/4000μA/40/400mA	±(1.0%+5)	±(1.0%+5)		
	660/6600μA/66/660mA	±(1.5%+5)	±(1.0%+5)	±(1.5%+5)	
AC Current	10A	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)	
	400/4000μA/40/400mA	±(1.5%+5)	±(1.5%+5)	±(1.5%+5)	
	660/6600μA/66/660mA	±(1.5%+5)	±(1.5%+5)	±(1.5%+5)	
	10A	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)	
Resistance	400Ω/4/40/400kΩ/4MΩ	±(0.8%+5)	±(0.8%+5)		
	40MΩ	±(1.5%+5)	±(1.5%+5)		
	660Ω/6.6/66/660kΩ/6.6MΩ	±(0.8%+5)	±(0.8%+5)	±(0.8%+5)	
Capacitance	66MΩ	±(1.5%+5)	±(1.5%+5)		
	4nF	±(4.0%+5)	±(4.0%+5)		
	40/400nF/4/40/400μF	±(3.0%+3)	±(3.0%+3)		
	4mF/40mF	±(4.0%+5)	±(4.0%+5)		
Frequency (V position)	6.6nF	±(4.0%+5)	±(4.0%+5)		
	66/660nF/6.6/66/660μF	±(3.0%+3)	±(3.0%+3)		
	6.6mF/66mF	±(4.0%+5)	±(4.0%+5)		
Frequency (Hz position)	40/400Hz/4/10kHz	±(1.5%+5)	±(1.5%+5)		
	66/660Hz/6.6/10kHz	±(1.5%+5)	±(1.5%+5)		
Duty Cycle	40/400Hz/4/40/400kHz/4/40MHz	±(1.5%+5)	±(1.5%+5)		
	66/660Hz/6.6/66/660kHz/6.6/66MHz	±(1.5%+5)	±(1.5%+5)		
Temperature	1%~99%	±2.0%	±2.0%	±2.0%	
Temperature	0~1000°C/32~1832°F	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	
<b>Features</b>					
Display	counts		6600	6600	4000
Auto Ranging			●	●	
Manual Ranging			●	●	●
APO	Auto Power Off		●	●	●
REL	Relative Measurement		●	●	
True RMS	True Root Mean Square		●	●	●
Low Z	Low Impedance Input mode		●	●	
NCV	Non-contact Voltage Detection		●	●	●
Diode		1.5V	1.5V	3.2V	
Continuity Buzzer	<50Ω		●	●	●
MAX/MIN			●	●	●
Data Hold			●	●	●
LBD	Low Battery Display		●	●	●
Display Backlight			●	●	●
<b>General</b>					
Power Supply	1x9V/6F22 Battery				
Product Size	175mm×85mm×52mm/6.9"×3.3"×2.1"				
Product Weight	420g/0.92lb				
Safety Rating	CE(EMC+LVD) ETL CAT.III 1000V CAT.IV 600V RoHS				

● Feature Difference



#### Specifications MS8340A MS8340B

Specifications	Range	Accuracy	MS8340A	MS8340B
DC Voltage	600mV/6V	±(0.5%+3)		
	60V/600V/1000V	±(0.8%+3)		
	220mV	±(0.05%+3)		
AC Voltage	2.2V/22V/220V/1000V	±(0.05%+3)		
	6V/60V/750V(50Hz)	±(1.0%+4)		
	6V/60V/750V(2kHz)	±(2.0%+3)		
DC mV	2.2V/22V/220V/700V(40~400Hz)	±(0.8%+4)		
	220mV(40~400Hz)	±(0.05%+3)		
	AC mV	220mV(40~400Hz)	±(0.8%+4)	
DC Current	600uA/6mA/60mA/600mA/10A	±(1.2%+4)		
	220uA/2200uA/22mA/220mA/10A	±(0.8%+4)		
	AC Current	600uA/6mA/60mA/600mA	±(1.5%+3)	
AC Current	10A	±(2.0%+3)		
	220uA/2200uA/22mA/220mA	±(1.0%+3)		
	10A	±(1.5%+3)		
Resistance	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(1%+2)		
	220Ω/2.2KΩ/22KΩ/220KΩ	±(0.8%+2)		
	2.2MΩ/22MΩ/220MΩ	±(0.8%+2)		
Capacitance	40nF/400nF	±(3.0%+2)		
	40n4uF/40uF/400uF	±(3.5%+2)		
Frequency	22nF/220nF/2.2uF/22uF/220uF/2.2mF/220mF	±(2.5%+3)		
	1Hz~10MHz	±(0.2%+3)		
Duty Cycle	22Hz/220Hz/2.2kHz/22kHz/220kHz	±(0.2%+3)		
	1%~99%	±1%	±1%	
Temperature	-10°C~700°C	±(2%+2)		
	14°F~1292°F	±(2%+4)		
<b>Special Functions</b>				
LCD Display	counts		6000	22000
Auto Ranging	Auto & manual		●	●
APO	Auto Power Off		●	●
REL	Relative Measurement		●	●
PEAK	Peak Measurement		●	●
LPF	1KHz Low Pass Filter		●	●
Diode	2.8V		●	●
Continuity Buzzer	<30Ω		●	●
MAX/MIN			●	●
Data Hold			●	●
True RMS			●	●
Display Backlight			●	●
LBD	Low Battery Display		●	●
USB Interface	Windows OS		●	●
<b>General</b>				
Power Supply	4x1.5V AA Batteries			
Product Size	205mm×102mm×58mm/8.1"×4.0"×2.2"			
Product Weight	390g/0.86lb			
Safety Rating	CE(EMC+LVD) GS CAT. III 1000V			

● Feature Difference



#### MS8340A

VOLTAGE DC 1000V  
AC 750V

CURRENT DC 10A  
AC 10A



#### MS8340B

VOLTAGE DC 1000V  
AC 700V

CURRENT DC 10A  
AC 10A

