

## DIGITAL MULTIMETER

### MS8251A / MS8251B / MS8251C

EMC  
LVD



#### Specifications

MS8251A MS8251B MS8251C

Specifications	Range	Accuracy		
DC Voltage	400mV			±(0.8%+3)
	4V/40V/400V			±(0.5%+5)
	1000V			±(0.8%+3)
	660mV	±(0.8%+3)	±(0.8%+3)	
	6.6V/66V	±(0.5%+5)	±(0.5%+5)	
	1000V	±(0.8%+3)	±(0.8%+3)	
AC Voltage	400mV(40~60Hz)			±(1.5%+5)
	4V/40V/400V(40~400Hz)			±(1.2%+5)
	1000V(40~400Hz)			±(1.0%+3)
	660mV(40~60Hz)	±(1.5%+5)	±(1.5%+5)	
	6.6V/66V(40~400Hz)	±(1.2%+5)	±(1.2%+5)	
	1000V(40~400Hz)	±(1.0%+3)	±(1.0%+3)	
DC Current	400/4000µA/40/400mA			±(1.0%+5)
	660/6600µA/66/660mA	±(0.8%+2)	±(0.8%+2)	
	10A	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)
AC Current	400/4000µA/40/400mA			±(1.5%+5)
	660/6600µA/66/660mA	±(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)
	40MΩ			±(1.5%+5)
	660Ω/6.6/66/660kΩ/6.6MΩ	±(0.8%+5)	±(0.8%+5)	
	66MΩ	±(1.5%+5)	±(1.5%+5)	
Capacitance	4nF			±(4.0%+5)
	40/400nF/4/40/400µF			±(3.0%+3)
	4mF/40mF			±(4.0%+5)
	6.6nF	±(4.0%+5)		
	66/660nF/6.6/66/660µF	±(3.0%+3)		
	6.6mF/66mF	±(4.0%+5)		
Frequency (V position)	40/400Hz/4/10kHz			±(1.5%+5)
	66/660Hz/6.6/66/10kHz	±(1.5%+5)	±(1.5%+5)	
Frequency (Hz position)	40/400Hz/4/40/400kHz/4/40MHz			±(1.5%+5)
	66/660Hz/6.6/66/660kHz/6.6/66MHz	±(1.5%+5)	±(1.5%+5)	
Duty Cycle	1%~99%	±(2.0%+2)	±(2.0%+2)	±(2.0%+2)
Temperature	0~1000°C/32~1832°F	±(2.0%)	±(2.0%)	±(1.0%+3)

#### Features

Features	MS8251A	MS8251B	MS8251C	
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	●	●	●
Continuity Buzzer	<50Ω	●	●	●
MAX/MIN		●	●	●
Data Hold		●	●	●
LBD	Low Battery Display	●	●	●
Display Backlight		●	●	●

#### General

Power Supply	1×9V/6F22 Battery
Product Size	175mm×85mm×52mm/6.9"×3.3"×2.1"
Product Weight	420g/0.92lb
Safety Rating	CE ETL CAT.III 1000V CAT.IV 600V RoHS

● Feature Difference



#### MS8251A

**VOLTAGE** AC 1000V  
DC 1000V

**CURRENT** AC 10A  
DC 10A



#### MS8251B

**TRMS** **Low Z**



#### MS8251C

**VOLTAGE** AC 1000V  
DC 1000V

**CURRENT** AC 10A  
DC 10A

