

MS8233D

MS8233A / MS8233B / MS8233C

DIGITAL MULTIMETER



POLARITY DC 600V
AC 600V

CURRENT DC 10A
AC 10A



MS8233D

MS8233E / MS8233Z

DIGITAL MULTIMETER

Specifications	Range	Resolution	Accuracy					
			MS8233A	MS8233B	MS8233C	MS8233D	MS8233E	MS8233Z
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.5%+3)	±(0.5%+3)	±(0.5%+3)	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)
	600V	1V	±(0.5%+3)	±(0.5%+3)	±(0.5%+3)	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
	400mV/4V/40V/400V	0.1mV/1mV/10mV/0.1V						±(0.5%+2)
	200V	100V	±(1.2%+10)	±(1.2%+10)	±(1.2%+10)			
AC Voltage	2V/20V/200V	1mV/10mV/0.1V				±(0.9%+3)	±(0.9%+3)	
	4V/40V/400V	1mV/10mV/0.1V						±(0.8%+3)
	600V	1V	±(1.2%+10)	±(1.2%+10)	±(1.2%+10)	±(1.2%+3)	±(1.2%+3)	±(1.0%+3)
DC Current	200µA/2000µA/20mA/200mA	0.1µA/1µA/10µA/0.1mA	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	±(1.5%+4)	±(1.5%+4)	±(1.0%+3)
	400µA/4000µA/40mA/400mA	0.1µA/1µA/10µA/0.1mA						±(1.0%+3)
	10A	0.01A	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)	±(1.5%+3)	±(1.0%+3)
AC Current	200µA/2000µA/20mA/200mA	0.1µA/1µA/10µA/0.1mA				±(1.5%+4)	±(1.5%+4)	
	400µA/4000µA/40mA/400mA	0.1µA/1µA/10µA/0.1mA						±(1.2%+4)
	10A	0.01A				±(3.0%+5)	±(1.5%+4)	±(1.2%+4)
Resistance	200Ω/2kΩ/20kΩ/200kΩ	0.1Ω/1Ω/10Ω/0.1kΩ	±(0.8%+4)	±(0.8%+4)	±(0.8%+4)	±(0.8%+2)	±(0.8%+2)	
	2MΩ/20MΩ	1kΩ/20kΩ				±(1.0%+2)	±(1.0%+2)	
	2MΩ	1kΩ	±(0.8%+4)	±(0.8%+4)	±(0.8%+4)			
	400Ω/4kΩ/40kΩ/400kΩ	0.1Ω/1Ω/10Ω/0.1kΩ						±(0.8%+2)
Capacitance	4nF/40nF/400nF/4µF/40µF/200µF	1pF/10pF/0.1nF/1nF/10nF/0.1µF						±(3.0%+3)
Frequency	0.1~10MHz	1Hz						±(1.5%+5)
	0~20kHz	10kHz						
Duty Cycle	1%~99%	0.1%						±1.0%
Temperature	-20°C~0°C				±(10%+2)		±(5.0%+3)	±(5.0%+3)
	0°C~400°C	1°C			±(1%+3)		±(2.0%+3)	±(2.0%+3)
	400°C~1000°C				±2%		±(3.0%+3)	±(3.0%+3)
	-4°F~32°F				±(10%+2)		±(5.0%+5)	±(5.0%+5)
	33°F~752°F	1°F			±(1%+3)		±(2.0%+5)	±(2.0%+5)
	753°F~1832°F				±2%		±(3.0%+5)	±(3.0%+5)
Features								
Display	counts		2000	2000	2000	2000	2000	4000
Autorange	Auto					•	•	•
APD	Auto Power Off					•	•	•
NCV	Non-contact Voltage Detection					•	•	•
Diode	Open Voltage		3.0V	3.0V	3.0V	1.5V	1.5V	1.5V
Continuity Buzzer			<60Ω	<60Ω	<60Ω	<60Ω	<60Ω	<60Ω
Data Hold			•	•	•	•	•	•
MAX	Maximum Measurement					•	•	•
Display Backlight				•	•	•	•	•
LBD	Low Battery Display		•	•	•	•	•	•
General								
Power Supply	1x9V/6F22 Battery							
Product Size	140mmx67mmx30mm/5.5"x2.6"x1.2"							
Product Weight	112g/0.25lb							
Model Number	MS8233A	MS8233B	MS8233C	MS8233D	MS8233E	MS8233Z		
Certificate	ETL CE+ETL	ETL CE+ETL	ETL CE+ETL	ETL	ETL	CE+ETL	S	
Safety Rating	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V