

پتروفرهان گستر جنوب

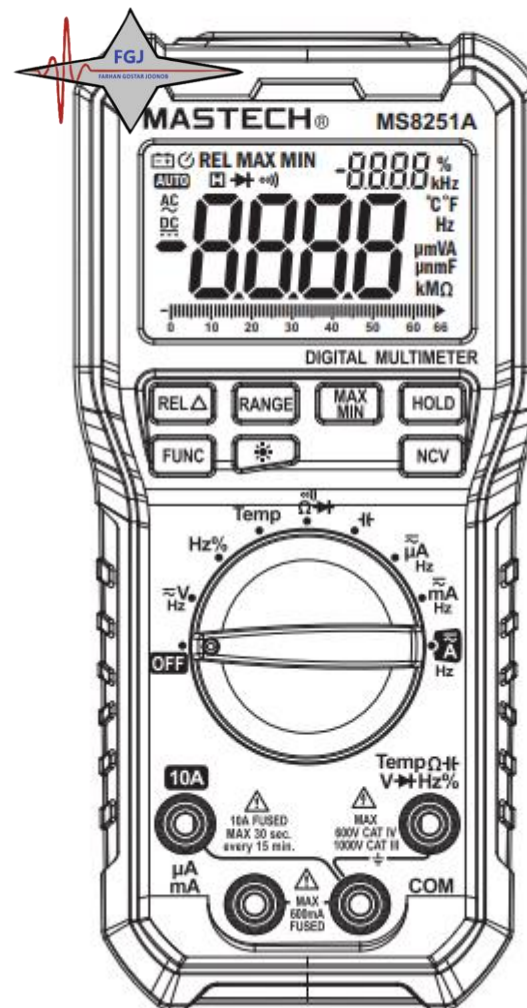
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Technical Specifications

average value Characteristics

Average response digital multimeter, when the input a pure sine wave, you can accurately measure the rms of sine wave, but the non-sinusoidal RMS measurement is not precise enough.

3.2.2 Impedance Characteristics

Normal impedance(10M) with normal testing capabilities. Ghost voltage can occur when power supply

DC Voltage

range	Resolution	Accuracy
660mV	0.1mV	±(0.8% of reading + 3 digits)
6.6V	0.001V	±(0.5% of reading + 5 digits)
66V	0.01V	
660V	0.1V	
1000V	1V	±(0.8% of reading + 3 digits)

- Input impedance: 10MΩ
- Overload protection: 660mV range: 250V DC or AC (RMS), 6.6V-1000V range: 1000V DC/AC (RMS)
- Maximum input voltage: 1000V DC

AC Voltage

range	Resolution	Accuracy	Frequency Range
660mV	0.1mV	±(1.5% of reading + 5 digits)	40 ~ 60Hz
6.6V	0.001V	±(1.2% of reading + 5 digits)	40 ~ 400Hz
66V	0.01V		
660V	0.1V	±(1.0% of reading + 3 digits)	40 ~ 400Hz
1000V	1V		

- Input impedance: 10MΩ
- Overload protection: 660mV range: 250V DC or AC (RMS), 6.6V-1000V range: 1000V DC/AC (RMS)
- Maximum input voltage: 1000V AC (RMS)
- Response: Average, calibrated in rms of sine wave.

Resistance

range	Resolution	Accuracy
660Ω	0.1Ω	±(0.8% of reading + 5 digits)
6.6kΩ	0.001kΩ	
66kΩ	0.01kΩ	
660kΩ	0.1kΩ	
6.6MΩ	0.001MΩ	±(1.5% of reading + 5 digits)
66MΩ	0.1MΩ	


- Open circuit voltage: approx. 1.0V
- Overload protection: 250V DC /AC (RMS)

Capacitance

range	Resolution	Accuracy
6.6nF	0.001nF	±(4.0% reading + 5 digits)
66nF	0.01nF	±(3.0% reading + 3 digits)
660nF	0.1nF	
6.6µF	0.001µF	
66µF	0.01µF	
660µF	0.1µF	±(4.0% reading + 5 digits)
6.6mF	0.001mF	
66mF	0.01mF	


- Overload protection: 250V DC or AC (RMS)

Diode Test

range	Resolution	Function
	0.001V	Shows approximate forward voltage of diode

- Forward DC current : approx. 1mA
- Revers DC voltage: approx. 3.2V
- Overload protection:250V DC/AC(rms)

Continuity

range	Resolution	Function
	0.1Ω	If measured resistance is less than 50Ω, a buzzer will sound

- Open circuit voltage: approx. 1.0V
- Overload protection:250V DC/AC(rms)

Frequency

Frequency (V position):

range	Resolution	Accuracy
66Hz	0.01Hz	±(1.5% reading + 5 digits)
660Hz	0.1Hz	
6.6kHz	0.001kHz	
10kHz	0.01kHz	

- Range: 10Hz~10kHz
- Input Voltage: ≥0.2V AC (Input voltage should increase along with the frequency)

Frequency (Hz position):

range	Resolution	Accuracy
66Hz	0.01Hz	±(1.5% reading + 5 digits)
660Hz	0.1Hz	
6.6kHz	0.001kHz	±(1.5% reading + 5 digits)
66kHz	0.01kHz	
660kHz	0.1kHz	
6.6MHz	1kHz	
66MHz	10kHz	

- Overload protection:250V DC/AC(rms)
- Input Voltage:3V peak to peak AC

Duty Cycle

range	Resolution	Accuracy
1-99%	0.1%	±2.0%

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DC Current

range	Resolution	Accuracy
660 μ A	0.1 μ A	$\pm(1.0\%$ reading + 5 digits)
6600 μ A	1 μ A	
66mA	10 μ A	
660mA	100 μ A	
10A	10mA	$\pm(2.0\%$ reading + 5 digits)

Overload protection:

μ A and mA position: Fuse FF600mA/1000V,

A position: Fuse FF10A/1000V.

When the target current is larger than 5A, do not continue measurement for more than 10 sec. Pause for 1 minute after the measuring.

AC Current

range	Resolution	Accuracy
660 μ A	0.1 μ A	$\pm(1.5\%$ reading + 5 digits)
6600 μ A	1 μ A	
66mA	10 μ A	
660mA	100 μ A	
10A	10mA	$\pm(3.0\%$ reading + 5 digits)

Overload protection:

μ A and mA grade: Fuse FF600mA/1000V,

A position: Fuse FF10A/1000V.

- Frequency range: 40 ~ 400Hz

- Response: Average, calibrated in rms of sine wave.

When the target current is larger than 5A, do not continue measurement for more than 10 sec. Pause for 1 minute after the measuring.

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Temperature

Range	Input	Test Range	Accuracy
0~1000°C	Ambient Temp	± 2 digits	$\pm(1.0\%$ of reading +3 digits)
	400°C	± 4 digits	
	1000°C	± 5 digits	
32~1832°F	Ambient Temp	± 2 digits	
	800°F	± 4 digits	
	1800°F	± 20 digits	

Using the Meter

Data Hold

- 1 During a measurement, press the "HOLD" button once to hold the reading.
- 2 Press "HOLD" again to release the hold.

Manual Range

In voltage, current, resistance and capacitance modes, the default range is "AUTO"

Press "RANGE" to enter manual ranging. Each press switches to a higher range. Pressing the button at the highest range will return to the lowest range.

Hold "RANGE" to return to "AUTO"

Pressing "RANGE" in Max/Min mode will return the meter to normal reading.

e: Manual range is disabled in frequency mode.

Relative Measurement

Press "REL Δ " to enter relative measurement. This will store the reading when pressed and display the difference between current reading and the stored reading.

Press "REL Δ " again to return to normal.