

ELECTRICAL SPECIFICATION

DC Voltage

Range	Resolution	Accuracy
ZONE1 & ZONE2		
60.00 mV	0.01 mV	±(0.9%+9 digits)
600.0 mV	0.1 mV	
6.000 V	0.001 V	±(0.5%+5 digits)
45.00 V	0.01 V	
IN NORMAL ENVIRONMENT		
1000 V		

In the dangerous environment (**Zone1 & Zone2**). Use this EX multimeter to measure upto 45V (Not the 1000V). Your can refer our specific datasheet. In normal environment, user can measure to 1000V (AC / DC) and 10A (AC / DC).

AC Current (45Hz ~ 1KHz)

Range	Resolution	Accuracy
600.0 µA	0.1 µA	±(1.5%+3 digits)
6000 µA	1 µA	
60.00 µA	0.01 mA	
600.0 µA	0.1 mA	±(2.0%+3 digits)
6.000 µA	0.001 A	
10.00 A	0.01 A	

All AC current ranges are from 5% to 100% of the specified range. AC current bandwidth: 45Hz ~ 1KHz (sine wave): 50/60Hz (all waveforms).

DC CURRENT

Range	Resolution	Accuracy
600.0 µA	0.1 µA	(1.0%+3 digits)
6000 µA	1 µA	
60.00 µA	0.01 µA	
600.0 µA	0.1 µA	
6.000 µA	0.001 A	±(1.5%+3 digits)
500.00 mA	0.01 A	

CAPACITANCE

Range	Resolution	Accuracy
99.99 nF*	0.01 nF	±(5.0%+20 digits)
999.9 nF	0.1 nF	±(4.0%+5 digits)
9.999 µF	0.001 µF	
99.99 µF	0.01 µF	
999.9 µF	0.1 µF	
9.999 mF	0.001 mF	±10% reading
99.99 mF	0.01 mF	

TEMPERATURE

Range	Resolution	Accuracy
-40 ~ 1000°C	1°C	±(3.0%+3°C/5°Fdigits) (Excluding probe accuracy)
-40 ~ 1832°F	1°F	

Attention: Accuracy specifications include two elements:

- (% reading) - This is the accuracy of the measurement circuit.
- (+digits) - This is the accuracy of the analog-to-digital converter.

Attention : Accuracy is expressed under conditions of 18°C ~ 28°C (65°F ~ 83°F) and relative humidity less than 75%.

AC Voltage (45Hz ~ 1KHz)

Range	Resolution	Accuracy
ZONE1 & ZONE2		
60.00 mV	0.01 mV	±(0.9%+9 digits)
600.0 mV	0.1 mV	±(0.8%+3 digits)
6.000 V	0.001 V	
45.00 V	0.01 V	
IN NORMAL ENVIRONMENT		
1000 V		

In the dangerous environment (**Zone1 & Zone2**). Use this EX multimeter to measure upto 45V (Not the 1000V). Your can refer our specific datasheet. In normal environment, user can measure to 1000V (AC / DC) and 10A (AC / DC).

All AC voltage ranges are from 5% to 100% of the specified range.

AC voltage bandwidth : 45Hz ~ 1KHz (sine wave) : 50/60HZ (all waveforms).

RESISTANCE

Range	Resolution	Accuracy
600.0 Ω	0.1 Ω	±(1.0%+2 digits)
6.000 KΩ	0.001 KΩ	±(0.8%+2 digits)
60.00 KΩ	0.01 KΩ	
600.0 KΩ	0.1 KΩ	
6.000 MΩ	0.001 MΩ	±(1.2%+2 digits)
60.00 KΩ	0.01 MΩ	±(1.0%+5 digits)

FREQUENCY (Electronic)

Range	Resolution	Accuracy
9.999 Hz	0.001Hz	±(0.1%+4 digits)
99.99 Hz	0.01Hz	
999.9 Hz	0.1Hz	
9.999 KHz	0.001KHz	
99.99 KHz	0.01KHz	
999.9 KHz	0.1KHz	
9.999 MHz	0.001MHz	

Sensitivity: When the duty cycle is between 20% and 80% and < 100kHz, the minimum is 0.8V RMS; Minimum 5Vrms at 20% to 80% duty cycle and >100kHz.

FREQUENCY (Electronic)

Range	Resolution	Accuracy
10.00-1KHz	0.01Hz	±0.5% reading

Sensitivity: AC mV range (≥ 100mV),
ACV range (≥ 6% range);
6000 µA / 500.0mA
600.0 µA / 60.00mA

DUTY CYCLE

Range	Resolution	Accuracy
0.1 ~ 99.9%	0.10%	±(1.2%+2 digits)

Pulse width: 100 µ s ~ 100ms; Frequency : 5Hz ~ 150KHz