

Range	Accuracy	Resolution	Input impedance	Overload protection
4V	$\pm (0.5\%+4d)$	1mV	About 10M Ω	1000V DC / AC RMS
40V		10mV		
400V		100mV		
1000V	$\pm (1.0\%+6d)$	1V		

10-2. DC mV

Range	Accuracy	Resolution	Input impedance	Overload protection
40mV	$\pm (0.5\%+5d)$	0.01mV	>40M Ω	250VDC / AC RMS
400mV		0.1mV		

10-3. AC mV (True RMS)

Range	Accuracy	Resolution	Input impedance	Overload protection
40mV	$\pm (1.0\%+6d)$	0.01mV	About 10M Ω	250V DC/AC RMS
400mV		0.1mV		

10-4. ACV (True RMS)

Range	Accuracy	Resolution	Input impedance	Overload protection
4V	$\pm (0.8\%+10d)$	1mV	About 10M Ω	1000V DC / 750AC RMS
40V		10mV		
400V		100mV		
750V	$\pm (1.2\%+10d)$	1V		

Accuracy measurement range: 10%-100% of the range.

Frequency response: 40Hz-1 kHz.

Measurement mode (sine wave): true RMS.

Crest factor: $CF \cong 3$, adding an additional error of 1% to the reading at $CF \cong 2$.

AC frequency measurement error: $0.2\%+0.02\text{Hz}$.

AC frequency measurement range: $40\text{Hz}\sim 1\text{k Hz}$.

AC frequency input sensitivity: $80\text{V}\sim 600\text{V}$

10-5. DCA

Range	Accuracy	Resolution	Load voltage	Overload protection
400uA	$\pm(1.0\%+10\text{d})$	0.1uA	0.1mV/ mA	FUSE 400mA/250V
4000uA		1uA	0.1mV/ mA	
40mA	$\pm(1.2\%+8\text{d})$	10uA	1.552mV/ mA	
400mA		100uA	1.637mV / mA	
4A	$\pm(1.2\%+10\text{d})$	1mA	31.789mV/ A	FUSE
10A		10mA	31.789mV/ A	10A/250V

10A (test within 10 seconds); Recovery time is 15 minutes.

10-6. ACA (True RMS)

Range	Accuracy	Resolution	Load voltage	Overload protection
400uA	$\pm(1.5\%+10\text{d})$	0.1uA	0.1mV/ mA	FUSE 400mA/250V
4000uA		1uA	0.1mV/ mA	
40mA		10uA	1.552mV/ mA	
400mA		100uA	1.637mV / mA	
4A	$\pm(2.0\%+5\text{d})$	1mA	31.789mV/ A	FUSE
10A		10mA	31.789mV/ A	10A/250V

Δ Measuring range of accuracy value: 10% - 100% of the range.

Frequency response: $40\text{Hz} - 1\text{k Hz}$

Measuring way (sine wave): True RMS

Crest factor: $CF \leq 3$, when $CF \geq 2$, add an additional error of 1% of the

reading.

10A (The measurement should not be more than 10 seconds);

Recovery time is 15 minutes.

10-7. Resistance


Range	Accuracy	Resolution	Short-circuit current	Open-circuit voltage
400Ω	± (0.8%+5d)	0.1Ω	About 0.4mA	About 1V
4kΩ	± (0.8%+4d)	1Ω	About 100uA	
40kΩ		10Ω	About 10uA	
400kΩ		100Ω	About 1uA	
4MΩ		1kΩ	About 0.2uA	
40MΩ	± (1.2%+10d)	10kΩ	About 0.2uA	About 0.5V

Measuring error does not include lead resistance.

Overload protection: 250VDC/AC RMS

10-8. Capacitance

Range	Accuracy	Resolution	Overload protection
6nF	± (5.0%+40d)	0.001nF	250VDC/AC RMS
60nF	± (3.5%+20d)	0.01nF	
600nF		0.1nF	
6uF		0.001uF	
60uF		0.01uF	
600uF		0.1uF	
6mF		± (5.0%+10d)	
60mF	± 10%	0.01mF	
100mF		0.1mF	

 Measuring range of accuracy: 10% - 100% of the range

Large capacitance response time: ≥1uF about 8s

Measurement error does not include lead distribution capacitance.

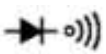
10-9. Frequency

Range	Accuracy	Resolution	Overload protection
10Hz	$\pm(0.5\%+10d)$	0.01Hz	250VDC/AC RMS
100Hz		0.1Hz	
1kHz		1Hz	
10kHz		10Hz	
100kHz		100Hz	
1MHz		1kHz	
20MHz		10kHz	

⚠Note: The reading will be zero if the signal is below 3Hz.

Input sensitivity: 1V

10-10. Diode and continuity Test

Range	Displaying value	Test Condition	Error
	Positive voltage drops of diode	The positive DC Current is approx. 1.5mA. Negative voltage is approx. 3.2V.	5%
	Buzzer sounds, the resistance is less than $50\pm 20\Omega$	The test current is approx. 0.4 mA	

Warning: Do not input voltage at this range.

Overload protection: 250V DC/AC RMS

10-11. Temperature

Range	Accuracy	Resolution	Overload protection
$(-20-1000)^{\circ}\text{C}$	$<400^{\circ}\text{C} \pm (1.0\%+5d)$ $\geq 400^{\circ}\text{C} \pm (1.5\%+15d)$	1°C	250V DC/AC RMS
$(-4\sim 1832)^{\circ}\text{F}$	$<752^{\circ}\text{F} \pm (1.0\%+5d)$ $\geq 752^{\circ}\text{F} \pm (1.5\%+15d)$	1°F	

⚠Sensor: Type-K thermocouple (Ni-Cr – Ni-Si) banana probe