DIGITAL CLAMP METER

kaise

AC/DC DIGITAL CLAMP METER

CE Mark Approved.

True RMS

SK-7718

1000$\widetilde{\overline{A}}$ + 600$\widetilde{\overline{V}}$ + 40MΩ + •))) + ⊣◄ + ⊣⊢

A → Hz → % V → Hz → %

- **AC/DC 1000A Measurements**
  Autoranging SK-7718 presents usability and versatility provided with AC/DC 1000A, AC/DC 600V, and Resistance to Capacitance measurements.
- **CIRCULAR Measurements**
  A → Hz → % →
  V → Hz → % →
  Ω → •))) → ⊣◄ → ⊣⊢ →
- **ADVANCED TESTING FUNCTIONS**
  Peak Hold, Max/Min and Difference measurements are available as well as Display Hold.
- **4000 COUNT LCD with Units and Symbols**
  Easy to read 4000 count LCD with 12mm high numerals.
- **DUST-PROOF & WATER-RESISTANT**
  Cases are DUST-PROOF and WATER-RESISTANT made of high heat resistant ABS.
- **AUTO POWER OFF** Prevents battery consumption.
- **SAFETY DESIGN**
  SK-7718 has been designed with user's safety in mind, and CE Mark is approved complied with LVD (IEC 61010-1) and EMC.

ISO 9001 JIS Q 9001 · JAB QS Accreditation R004 · MGMT.SYS. RvA C141

ISO9001 Approved

Almighty Clamp Meter, Compactly Designed !!

Most capable instrument for testing and maintaining Electrical Appliances and Apparatus, Mechanical Equipments and Facilities, Electric Systems of Motorcars and Electric Power Lines etc....

GENERAL SPECIFICATIONS

1. **DISPLAY:**
   - **a. Numerical Display** ; 4000 Count LCD, Max 9999, 12mm high.
   - **b. Units and Symbols** ; A, mV, V, Hz, kHz, %, Ω, kΩ, MΩ, •))), ⊣⊢, nF, μF, ⎓, ~, −, BAT, AUTO, PH, DIFF, DH, MAX, MIN, OL and decimal point.
2. **OPERATING PRINCIPLE :** ΣΔ Conversion.
3. **MEASURING PRINCIPLE** : True RMS.
4. **SAMPLING RATE :** 3 times/sec.
5. **RANGE SELECTION :** Autoranging.
6. **POLARITY:** Autopolarity, −symbol when minus, + symbol is implied.
7. **OVERLOAD INDICATION** : OL symbol is shown. (excluding DC/AC 600V)
8. **BATTERY WARNING :** BAT symbol is shown.
9. **DISPLAY HOLD :** Display is held by DH Key.
10. **MAX/MIN :** Maximum and Minimum Values are measured by MAX/MIN Key on $\overline{\overline{A}}$, $\widetilde{A}$, $\overline{\overline{V}}$, $\widetilde{V}$ and Ω.
11. **PEAK HOLD :** Current ; up to ~ / ⎓ 1000A peak. Peak Value is measured at 10m sec. in PH Mode.
12. **DIFF (Difference) :** Desired value being measured is stored and converted to read zero on LCD and only difference is shown with proceeding measurements. Also use this Key to take zero on DC Current measurements only when necessary.
13. **CONTINUITY TEST :** Buzzer sounds in case less than approx. 50Ω.
14. **OVERLOAD PROTECTION :**
    - a. Current ; ~ / ⎓ 1500A rms (600V Line) for one minute.
    - b. Voltage ; ~ / ⎓ 900V rms for one minute.
    - c. Resistance ; ~ / ⎓ 300V rms for one minute.
15. **DIELECTRIC STRENGTH :** 5.55 kV (Sine Wave) for one minute between Case and Input Terminals.
16. **OPERATING TEMPERATURE & HUMIDITY :** 0℃ to 40℃, less than 80% in non-condensing.
17. **STORAGE TEMPERATURE & HUMIDITY :** −20℃ to 60℃, less than 70% in non-condensing.
18. **TEMPERATURE COEFFICIENT:** When 0℃ to 18℃ and 28℃ to 40℃, (Accuracy on condition of 23℃±5℃) × 0.1/℃.
19. **SAFETY LEVEL :** CE Mark authorized. IEC 61010-1 Overvoltage Category Ⅲ 600V and EMC Test passed.
20. **POWER SUPPLY :** 9V 6F22 (S-006P) × 1.
21. **POWER CONSUMPTION :** Less than 90mW, approx. 25 hours continuous operation.
22. **AUTO POWER OFF :** LCD is automatically turned off under power off condition after 12 minutes of power on.
23. **CONDUCTOR DIAMETER :** 35mmϕ.
24. **DIMENSIONS & WEIGHT :** 193 × 60 × 34.5mm, 300g.
25. **OPTIONAL ACCESSORIES :** Line Separator, Alligator Clips.

MEASUREMENT SPECIFICATIONS

(23℃±5℃, less than 80% RH)

Current (⎓A / ~A → Hz → %)

	Range	Resolution	Accuracy	Max. Input Current
DC Current (⎓A)	400.0A	0.1A	±1.5%rdg±3dgt	400A DC
	1000 A	1 A	400~600A : ±1.5%rdg±3dgt 601~1000A : ±3.0%rdg±3dgt	1000A DC
AC Current (~A) True RMS	400.0A	0.1A	±1.5%rdg±5dgt	400A rms
	1000 A	1 A	400~600A : ±1.5%rdg±5dgt 601~1000A : ±3.0%rdg±5dgt	1000A rms
	＊Crestfactor : 400A less than 3, 1000A less than 1.5.			

Frequency (Hz)	Range	Accuracy	Resolution	Input Sensitivity
	1.000Hz~4.999Hz	±0.2%rdg±2dgt	1m Hz	5 A rms
	5.00Hz~49.99Hz		10m Hz	
	50.0Hz~499.9Hz		100m Hz	
	0.500kHz~1.000kHz		1 Hz	

Duty Cycle	Not Specified.			
Peak Hold (DC/AC current)	Range	Resolution	Accuracy (Pulse width:10ms)	Max. Input
	1000 $\overline{\overline{A}}$	1 A	±5.0%rdg±5dgt	1500A

Voltage (⎓V / ~V → Hz → %)

	Range	Accuracy	Resolution	Input Resistance	Max. Input
DC Voltage (⎓V)	400.0mV	±1.0%rdg±3dgt	0.1mV	≧100MΩ	600V DC
	4.000 V		1mV	≒11MΩ	
	40.00 V		10mV	≒10MΩ	
	400.0 V		100mV		
	600 V		1 V		
AC Voltage (~V) True RMS	4.000 V	±1.0%rdg±5dgt (40~400Hz)	1 mV	≒11MΩ	600V rms
	40.00 V		10 mV	≒10MΩ	
	400.0 V		100 mV		
	600 V		1 V		
	＊Crestfactor : 400V less than 3, 600V less than 2.				

Frequency (Hz)	Range	Accuracy	Resolution	Input Sensitivity
	1.000Hz~4.999Hz	±0.2%rdg±2dgt	1m Hz	5 V rms
	5.00Hz~49.99Hz		10m Hz	
	50.0Hz~499.9Hz		100m Hz	
	0.500kHz~4.999kHz		1 Hz	
	5.00kHz~49.99kHz		10 Hz	
	Max.Input 300V rms			

Duty Cycle (%)	Range	Accuracy	Resolution	Input Sensitivity	Max.Input
	10%~90%	±2.0%rdg±2dgt	0.1%	3 V	300V rms
	Frequency Range : 1Hz~1kHz				

Resistance (Ω)

Range	Accuracy	Resolution	Measurement Current	Open Circuit Voltage
400.0 Ω	±1.5%rdg±5dgt	0.1Ω	≦0.3mA	≒0.4V
4.000 kΩ	±1.0%rdg±3dgt	1 Ω	≦40 μA	
40.00 kΩ		10Ω	≦ 4 μA	
400.0 kΩ		100Ω	≦0.4 μA	
4.000 MΩ	±4.0%rdg±5dgt	1kΩ	≦40 nA	
40.00 MΩ	±6.0%rdg±5dgt	10kΩ		
Overload Protection : 300V rms 1minute.				

Continuity (•))))

Range	Buzzer	Resolution	Measurement Current	Open Circuit Voltage
400.0Ω	<≒50Ω	0.1Ω	≦0.4mA	≒0.44V
Overload Protection : 300V rms 1minute.				

Diode Tests (⊣◀)

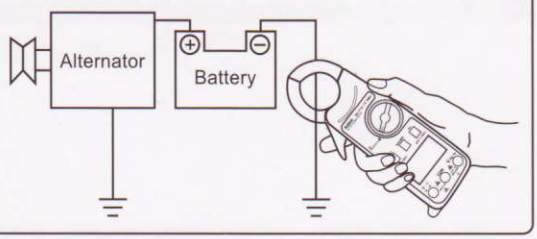
Range	Accuracy	Resolution	Open Circuit Voltage	Overload Protection
0~1.5V	±5.0%rdg±5.0dgt	1mV	≦1.7V	300V rms 1minute

Capacitance (⊣⊢)

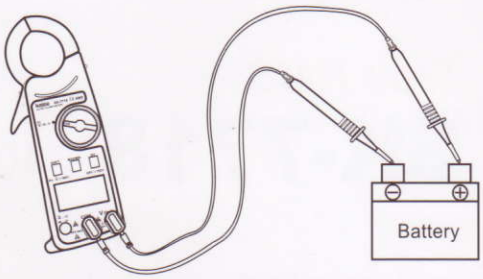
Range	Accuracy	Resolution	Open Circuit Voltage	Overload Protection
50.00 nF	±5.0%rdg ±10dgt	10pF	≦1.7V	300V rms 1 minute
500.0 nF		100pF		
5.000 μF		1nF		
50.00 μF		10nF		
100.0 μF		100nF		

＊Specifications are subject to change without notice.

Example 1. Battery Current Measurement



Example 2. Voltage Measurement



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