

Usefulness-Safety-Compactness

DC/AC DIGITAL CLAMP METERS!!

CE Mark Approved

SK-7682

DC/AC 400A + DC/AC 600V + Hz + %

True RMS

for Electrical Appliances and Apparatus, also for Motorcars!!

*This is a very compact, lightweight,
useful DC/AC Clamp Meter.
No range selection is required.*

Advanced Functions

- Peak Hold : ∞ 400A
- Max/Min Measurements
- Difference Measurements
- Display Hold



- **Various Uses**
Maintenance of Electric equipments and Automobiles.
- **Autoranging DC/AC Digital Clamp Meter**
- **4 digit LCD**
Easy to read LCD with 12 mm numerals, units and symbols.
- **Safety Design**
CE Mark is approved, complied with EMCD and LVD (IEC 1010-01).
- **Auto Power Off**
Auto Power Off prevents the battery consumption.
- **Display Hold**
This function helps you when measuring in a dark or dangerous spot.

ADVANCED DC/AC DIGITAL CLAMP METERS !!

The SK-7682 is a micro-computer controlled, autoranging DC/AC Digital Clamp Meter (True RMS) with 4 digit LCD. It is a slimly compact, lightweight, useful Clamp Meter for testing and maintaining multifarious electrical appliances, apparatus, factory equipments and facilities. It is also a very easy to use as an Automotive Clamp Meter for testing/repairing electric systems of motorcars.

The instrument presents the reliability and convenience for the users in the field of electrical and automobile industries.

■ 4 DIGIT LCD

Easy to read LCD with 12 mm numerals, units and various symbols.

■ EASY OPERATION

Measuring element and function are arranged reasonably with Slideswitches and Keyswitches.

■ ADVANCED TESTING FUNCTIONS

Higher class testing functions such as Peak Hold, Max/Min and Difference measurements are available by each Keyswitch.

■ SAFETY DESIGN

SK-7682 has been designed with user's safety in mind, and CE Mark is approved complied with EMCD and LVD (IEC 1010-01)

■ AUTO POWER OFF

LCD is automatically turned off under Power Off condition after 12 minutes of power on. Battery consumption is prevented when power off is forgot.

■ AS AN AUTOMOTIVE CLAMP METER

You can measure Peak Current of Battery when Starter starts, Charge and Discharge Current and its Max/Min.

■ GENERAL SPECIFICATIONS

1. DISPLAY :
 - a. Numerical Display ; 4000 count LCD, Max. reading(4050), 12mm high.
 - b. Units and Symbols ; A, mV, V, Hz, %, ∞ , \sim , \sim , AUTO, BAT, APO, DH, PH, DIFF, MAX, MIN, OL and decimal point.
2. OPERATING PRINCIPLE : $\Sigma \Delta$ conversion.
3. SAMPLING RATE : 3 times/sec.
4. RANGE SELECTION : Autoranging.
5. POLARITY : Autopolarity, $-$ symbol when minus, $+$ symbol is implied.
6. OVERRANGE INDICATION : OL symbol is shown. (no symbol on $\infty / \sim 600V$)
7. BATTERY WARNING : BAT symbol is shown.
8. DISPLAY HOLD : Display is held by DH Key.
9. MAX/MIN : Max. and Min. Values are measured by using MAX/MIN Key.
10. PH (Peak Hold) : Current ; up to ∞ 400A Peak. Peak Value is measured at 10m sec.
11. DIFF : Difference Measurements can be made by DIFF Key. Desired value being measured is stored and converted to read zero on LCD and only difference is shown with proceeding measurements. When random digits remain on A or V measurements, they can be zeroed by this Key.
12. OVERLOAD PROTECTION :
 - a. Current ; \sim / ∞ 700A (600V Line).
 - b. Voltage ; \sim / ∞ 1000V.
13. OPERATING TEMPERATURE & HUMIDITY :

0°C to 40°C, less than 80% RH in non-condensing.
14. STORAGE TEMPERATURE & HUMIDITY :

-20°C to 60°C, less than 70% RH in non-condensing.
15. DIELECTRIC STRENGTH : 3.7kV (Sine Wave) for one minute.
(between Case and Input Terminals).
16. SAFETY LEVEL : IEC-1010-1 Overvoltage Category III. 300V, EMCD test passed.
17. POWER SUPPLY : Two 1.5V R6P(or AA) batteries.
18. POWER CONSUMPTION : less than 10mA, approx. 90 hours continuous operation.
19. AUTO POWER OFF : Power is automatically turned off after about 12 minutes on.

NOTE : SK-7682 consumes 1~2 μ A under Auto Power OFF condition.

20. CONDUCTOR DIAMETER : 19mm ϕ .

21. DIMENSIONS & WEIGHT : 196(H) \times 59(W) \times 30(D)mm, 180g.

■ MEASUREMENT SPECIFICATIONS

(23°C \pm 5°C, less than 80% RH in non-condensing)

1. Current Measurements (∞ A / \sim A / Hz / %)

1-1. DC Current (∞ A)

Range	Accuracy	Resolution	Maximum Input
40.00A	$\pm 1.5\% \text{rdg} \pm 3 \text{dgt}$	0.01A	400A DC
400.0A	40A \sim 200A: $\pm 2.0\% \pm 3 \text{d}$ 200A \sim 400A: $\pm 4.0\% \pm 3 \text{d}$	0.1A	

1-2. AC Current (\sim A)

True RMS

Range	Accuracy(50/60Hz)($>0.5A$)	Resolution	Maximum Input
40.00A	$\pm 1.5\% \text{rdg} \pm 5 \text{dgt}$	0.01A	400A AC
400.0A	36.0A \sim 200A: $\pm 2.0\% \pm 5 \text{d}$ 200.0A \sim 400A: $\pm 5.0\% \pm 5 \text{d}$	0.1A	

40Hz \sim 400Hz : 40A ; add 0.5%, 400A ; add 1%.
Crest Factor : 200A $>$; 3, 200A \sim 400A ; 1.5

1-3. Frequency (Hz)

Range	Accuracy	Resolution	Input Sensitivity	Maximum Input
5.00Hz \sim 49.99Hz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$	10m Hz	10A rms	400A rms
50.0Hz \sim 499.9Hz		100m Hz		
0.500kHz \sim 1.000kHz		1 Hz		

1-4. Duty Cycle (%)

Not specified

1-5. Peak Hold (∞ A FUNCTION)

Range	Accuracy	Resolution	Maximum
400.0A	$\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$	0.1A	400A DC

2. Voltage Measurements (∞ V / \sim V / Hz / %)

2-1. DC Voltage (∞ V)

Range	Accuracy	Resolution	Input Impedance	Maximum
400.0mV	$\pm 1.0\%rdg \pm 3dgt$	0.1 mV	$\geq 100M\Omega$	600V DC
4.000 V		1 mV	$\approx 11 M\Omega$	
40.00 V	$\pm 1.0\%rdg \pm 2dgt$	10 mV	$\approx 10 M\Omega$	
400.0 V		100 mV		
600.0 V		1 V		

2-2. AC Voltage (\sim V)

True RMS

Range	Accuracy(>0.1V)	Resolution	Input Impedance	Maximum
4.000 V	± 1.5%rdg± 5dgt (40~400Hz)	1 mV	≒ 11MΩ	600V AC
40.00 V		10 mV	≒ 10MΩ	
400.0 V		100 mV		
600 V		1 V		

Crest Factor : 3

2-3. Frequency (Hz)

Range	Accuracy	Resolution	Input Sensitivity	Maximum Input
1.000Hz \sim 4.999Hz	$\pm 0.2\% \text{rdg} \pm 2 \text{dgt}$	1 mHz	3V rms	300V rms
5.00Hz \sim 49.99Hz		10 mHz		
50.0Hz \sim 499.9Hz		100 mHz		
0.500kHz \sim 4.999kHz		1 Hz		
5.00kHz \sim 49.99kHz		10 Hz		

2-4. Duty Cycle (%)

Range	Accuracy	Resolution	Input Sensitivity	Maximum Input	Frequency Range
0.0% \sim 99.9%	$\pm 0.5\% \text{rdg} \pm 5 \text{dgt}$	0.1%	3V rms	600V rms	1Hz \sim 1kHz

* Specifications are subject to change without notice.

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