

**kaise**

**NEW** LOW CURRENT DC CLAMP METER

**SK-7830**

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CE



LOW CURRENT DC CLAMP,  
*For Car Maintenance*

**Quick! Easy!**  
**Just Clamping-On!**

- ❖ 4000mA DC Range
- ❖ Power-On Initialize (Automatic zero-adjustment function)
- ❖ Newly-Developed External-Noise-Preventable Core Mechanism



SK-7830

Patent Pending

# Focused on Current Measurement in Car Maintenance.

## Quick and Easy Dark Current Measurement Just Clamping-On.

### For Car Maintenance

Wide range of DC current measurement is possible from 4000mA to 200A range.



### Power-On Initialize

Automatic Zero-Adjustment function to adjust LCD indications into 0±1 digit when powered on.

### Stable Reading

Even in low current measurement, SK-7830's LCD reading is always stable.

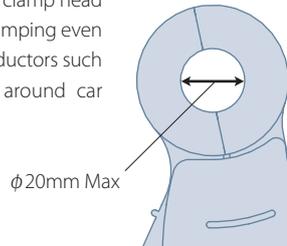
Generally, low current measurement value is hard to read due to its instability. SK-7830 solved this problem by its own internal processing system to minimize reading-instability.

### Newly-Developed External-Noise-Preventable Core Mechanism

Shielded clamp core prevents external noise or effect of external magnetic field.

### Small-Sized Clamp Head

SK-7830's small clamp head assures easy clamping even for narrow conductors such as the cables around car engine.



### Display Hold

Enables to hold LCD indications. Effective to confirm measurement values as necessary.

### Difference Measurement

Relative measurement function. Just pushing 0 ADJ (DIFF) key, convert a measurement value into zero and indicate relative values.

### Auto Power Off

Power turns off automatically after a lapse of following minutes.

4000mA range : Approx. 5 minutes

40A/200A range : Approx. 10 minutes

### CE Marking Approved

CAT III 300V, CAT I 600V

## Car Measurement with SK-7830

### Dark Current Measurement

**Dark Current** : mA-level low current that is used after turning off the engine by such as car security system or audio settings back-up. Too much dark current causes battery runs out, but its measurement was difficult. SK-7830 solved this problem and make it quick and easy.

- 1 Leave the engine turned off for about 15 minutes. All electric components (headlights or lamps) must be turned off.
- 2 Clamp-on a minus cable of car battery.
- 3 Read the measurement value. If it is higher than the specified value, check 1 once again.



### Car Alternator's Charging Current Measurement

**Car Alternator** : Engine generator that outputs DC electricity. Measuring its charging current is effective to find the trouble that might cause battery runs out or battery damages.

- 1 Clamp B-terminal cable from car alternator.
- 2 Start the engine.
- 3 Alternator has no problem if 20A to 40A is displayed first, and then it slowly becomes lower.



accuracy at 23°C ± 5°C, <80% RH in non-condensing

Model	SK-7830	
DC Current	Range	Accuracy
	Manual - ranging (4000mA)	±1.5%rdg±5dgt (from 5mA)
	Auto - ranging (40A/200A)	(0 to 100A) ±1.5%rdg±5dgt
	200.0A	(101 to 200A) ±3.0%rdg±5dgt
Functions	Power-On Initialize, Display hold, Zero adjustment, Difference measurement, Auto power off	
Display (LCD)	4000 count, Maximum reading 4050, 12mm high	
Operating Principle	ΣΔ conversion	
Sampling Rate	64 times / second (Display : 1 time/second)	
Range Selection	Manual-ranging(4000mA), Auto-ranging(40A/200A)	
Polarity	Auto-Polarity ("—" indication in minus)	
Overload Indication	"OL" indication blinks	
Battery Warning	"BAT" indication at approx. 2.3V or less	
Display Hold	Hold indicating values by DH Key	
Zero-Adjustment (Difference Measurement)	Adjust LCD into 0±1 digit and/or start Difference Measurement by 0 ADJ (DIFF) Key.	
Auto Power Off	Power turns off automatically after approx. 5 minutes ; 4000mA range, or after approx. 10 minutes ; 40A/200A range.	
Overload Protection	400A AC/DC rms for 1 minute (50/60Hz)	
Dielectric Strength	3.54kV AC, 50Hz sine wave, for 1 minute (between iron core and case)	
Operable Temperature & Humidity	0°C to 40°C, 80%RH or lower in non-condensing.	
Storage Temperature & Humidity	-20°C to 60°C, 70%RH or lower in non-condensing.	
Temperature Coefficient	Accuracy in 23°C ± 5°C × 0.1%/°C	
Safety Level	CE Marking approved (IEC-61010-1, CAT III 300V, CAT I 600V and EMC Test passed)	
Power Supply	1.5V R6P (AA) batteries × 2	
Power Consumption	26mA max.	
Continuous Operating Time	Approx. 60 hours (Alkaline cell), Approx. 30 hours (Manganese cell)	
Conductor Diameter	φ20mm max.	
Dimensions & Weight	203(H) × 61(W) × 30(D)mm, Approx. 230g (including batteries)	
Accessories	1011 Carrying Case, 1.5V R6P (AA) batteries × 2, Instruction Manual	

DISTRIBUTOR

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