

SK-7830



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.

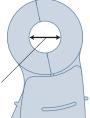
Newly-Developed **External-Noise-Preventable Core Mechanism**

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

CATII 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.

- 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
- 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)	4000mA ±1.5%rd		:5dgt (from 5mA)	
Auto - ranging (40A/200A)	40.00A (0 to 10		x) ±1.5%rdg±5dgt	
	200.0A	(101 to 200.	A) ±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	Dielectric Strength	3.54kV AC, 50Hz sine wave, for 1 minute (between iron core and case)	
Operating Principle	∑⊿conversion	Operatable Temperature	0°C to 40°C, 80%RH or lower in non-condensing.	
Sampling Rate	64 times / second (Display : 1 time/second)	& Humidity		
Range Selection	Manual-ranging(4000mA), Auto-ranging(40A/200A)	Storage Temperature	-20°C to 60°C, 70%RH or lower in non-condensing.	
Polarity	Auto-Polarity ("—" indication in minus)	& Humidity		
Overload Indication	"OL" indication blinks	Temperature Coefficient	Accuracy in 23 °C ± 5 °C $\times 0.1$ /°C	
Battery Warning	"BAT" indication at approx. 2.3V or less	Safety Level	CE Marking approved (IEC-61010-1, CAT III 300V, CAT I 600V and EMC Test passed.)	
Display Hold	Hold indicating values by DH Key	Power Supply	1.5V R6P (AA) batteries ×2	
Zero-Adjustment	Adjust LCD into 0±1 digit and/or start	Power Consumption	26mA max.	
(Difference Measurement)	Difference Measurement by 0 ADJ (DIFF) Key.	Continuous Operating Time	Approx. 60 hours (Alkaline cell), Approx. 30 hours (Manganese cell)	
Auto Power Off	Power turns off automatically after approx. 5 minutes ;	Conductor Diameter	φ20mm max.	
	4000mA range, or after approx. 10 minutes ; 40A/200A range.	Dimensions & Weight	203(H)×61(W)×30(D)mm, Approx. 230g (including batteries)	
Overload Protection	400A AC/DC rms for 1 minute (50/60Hz)	Accessories	1011 Carrying Case, 1.5V R6P (AA) batteries × 2, Instruction Manual	



Cosinus Messtechnik GmbH Rotwandweg 4 D-82024 Taufkirchen Tel 089-665594-0 Fax 089-665594-30 e-Mail: office@cosinus.de

Internet: www.cosinus.de