

DIGITAL LEAKAGE CLAMP METERS

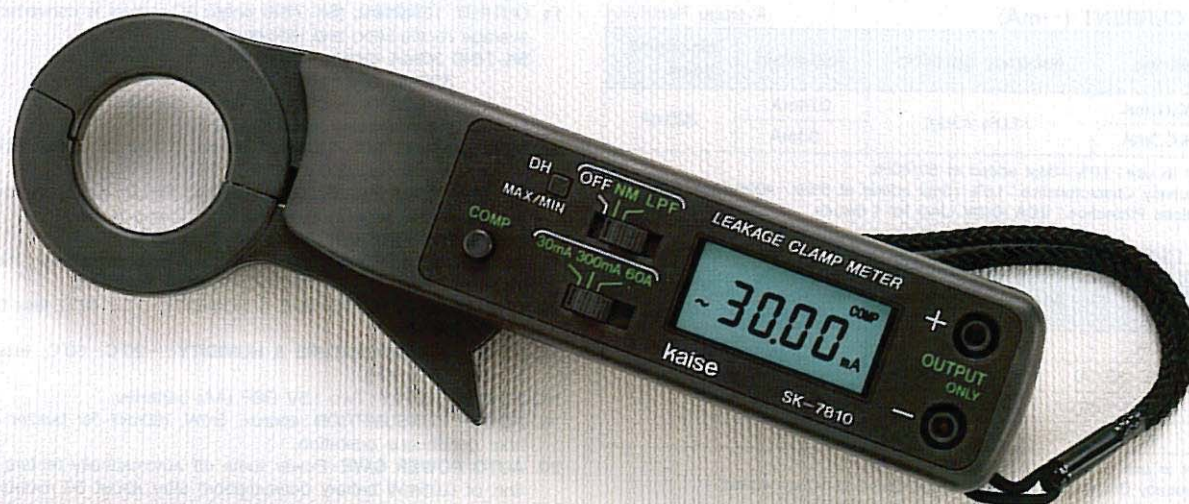
kaise

Leakage Current Meters with Comparator and Max/Min Measurements

LEAKAGE CLAMP METERS

SK-7810 30mA + 300mA + 60A + OUTPUT

SK-7815 ~mA + ~A + ~V



KAISE CORPORATION Japan

LEAKAGE CLAMP METERS with COMPARATOR

SK-7810/7815 are a new type of Clamp Meter for measuring Leakage Current and have advanced functions such as Comparator and Max/Min Measurements.

SK-7810 is Manual Ranging and includes an output terminal for connection to a Recorder.

SK-7815 is Auto Ranging and includes AC Voltage ranges. Both models are rugged, compact instruments designed to fit easily in the hand.

•EASY TO READ LCD

3000 count LCD with unit and symbol display.

•COMPARATOR :

1mA to 20mA setting. Buzzer sounds when measured value exceeds the set point.

•MAX/MIN MEASUREMENTS

Maximum and minimum values are stored and displayed.

•OUTPUT TERMINAL (SK-7810)

Analogue output is available for recorders.

•LOW PASS FILTER (LPF)

Cuts off frequencies higher than 150Hz.

•DISPLAY HOLD (DH)

Measured value is held by DH Key.

•AUTO POWER SAVE and POWER HOLD (PH)

AUTO POWER SAVE function saves battery consumption if meter is not turned off. POWER HOLD function enables continuous measurement for longer than 30 minutes.

■ MEASURING SPECIFICATIONS

(23°C ±5°C Less than 80% RH in non-condensing)

SK-7810

AC CURRENT (~mA, ~A)

Average Rectifying

Range	Accuracy 50/60Hz	Resolution	Maximum Value
30.00mA	±1.0% ±5dgt	0.01mA	32mA
300.0mA		0.1mA	320mA
60.0A(0~50.0A)	±1.0% ±5dgt	0.1A	60A
(50.1~60.0A)	±5.0% ±5dgt		

Filter in use : 1.0% ±3dgt added at 50/60Hz.

Frequency Characteristics : 1.0% ±3dgt added at 50Hz~400Hz.

Overload Protection : 100A (600V Line) for 1 minute.

SK-7815

AC CURRENT (~mA)

Average Rectifying

Range	Accuracy 50/60Hz	Resolution	Maximum Value
30.00mA	±1.0% ±5dgt	0.01mA	320mA
300.0mA		0.1mA	

Filter in use : 1.0% ±3dgt added at 50/60Hz.

Frequency Characteristics : 1.0% ±3dgt added at 50Hz~400Hz.

Overload Protection : 100A (600V Line) for 1 minute.

AC CURRENT (~A)

Average Rectifying

Range	Accuracy 50/60Hz	Resolution	Maximum Value
30.00A	±1.5% ±5dgt	0.01A	60A
60.0A(0 ~ 30.0A)	±1.5% ±5dgt	0.1A	
(30.1 ~ 50.0A)	±2.0% ±5dgt		
(50.1 ~ 60.0A)	±5.0% ±5dgt		

Filter in use : 1.0% ±3dgt added at 50/60Hz.

Frequency Characteristics : 1.0% ±3dgt added at 50Hz~400Hz.

Overload Protection : 100A (600V Line) for 1 minute.

AC VOLTAGE (~V)

Average Rectifying

Range	Accuracy 50/60Hz	Resolution	Maximum Value
300.0V	±2.0% ±5dgt	0.1V	600V
600V		1V	

Filter in use : 1.0% ±3dgt added at 50/60Hz.

Frequency Characteristics : 1.0% ±3dgt added at 50Hz~400Hz.

Overload Protection : AC 900V for 1 minute.

■ GENERAL SPECIFICATIONS

- DISPLAY :**
 - Numerical Display ; 3200 count LCD, 8.8mm high.
 - Units and Signs ; mA, A, V(SK-7815), ~, DH, MAX, MIN, COMP, AUTO(SK-7815), BAT, PH, and Decimal Point.
- OPERATING PRINCIPLE :** Dual Slope Integration.
- RANGE SELECTION :** SK-7810 Manual-ranging.
SK-7815 Autoranging.
- SAMPLING RATE :** 2 times/sec.
- OVERLOAD INDICATION :** -OL- sign shows. (Except on 60A)
- BATTERY WARNING :** BAT sign shows when battery voltage is less than 2.5V ±0.1V
- DISPLAY HOLD :** DH sign shows and display is held.
- MAX/MIN VALUE MEASUREMENTS :** Maximum and minimum readings are stored and displayed by MAX/MIN key.
- COMPARATOR (1mA to 20mA) :** Works on 30mA and 300mA ranges of SK-7810, on ~mA range of SK-7815. Buzzer sounds if input value exceeds the setting limit value.
- FILTER SELECTION :** LPF (Low Pass Filter) cuts off higher frequency than approx. 150Hz.
- OUTPUT TERMINAL (SK-7810 only) :** AC current is converted to DC mV by average rectification and delivered.
SK-7810 30mA range ; 10mV/1mA Acc. ±2% Fs.
300mA range ; 1mV/1mA Acc. ±2% Fs.
60A range ; 1mV/1A Acc. ±5% Fs.
Output resistance ; approx. 200Ω
- TEMPERATURE COEFFICIENCY :** Under 0°C to 18°C, and 28°C to 40°C is...
=(Accuracy under 23°C ±5°C) × 0.1/°C
- INFLUENCE OF EXTERNAL MAGNETIC FIELD :** less than 2mA against 100A AC conductor close to the outside of Clamp Head.
- MEASURING LINE VOLTAGE :** less than 600V AC.
- DIELECTRIC STRENGTH :** 2kV AC for 1 minute (between the case and the metal of Clamp Head or OUTPUT/INPUT Terminals)
- OPERATING TEMPERATURE & HUMIDITY :** 0°C~40°C. less than 80% RH in non-condensing).
- STORAGE TEMPERATURE & HUMIDITY :** -20°C~60°C, less than 70% RH in non-condensing.
- POWER SUPPLY :** Two 1.5V R6P (AA) batteries.
- POWER CONSUMPTION :** approx. 5mW, (60mW for buzzer operation). 500 hour continuous operation.
- AUTO POWER SAVE :** Power turns off automatically (enters in sleep condition of 0.05mW battery consumption) after about 30 minutes of Power -on or the other switch operation.
- POWER HOLD (PH) :** Turn on POWER Switch with DH Key being pressed. PH sign shows on LCD and continuous measurements longer than 30 minutes are available.
- OVERLOAD PROTECTION :** refer to Measuring Specifications.
- CONDUCTOR DIAMETER :** Max. 30mmφ.
- DIMENSIONS & WEIGHT :** 212×42×30mm, 220g.
- ACCESSORIES :** Two 1.5V R6P (AA) Batteries, 996 Carrying Case, One pair Test Leads (SK-7815 only), Instruction Manual.
- OPTIONAL ACCESSORIES :** 880 Line Separator, 940 Alligator Clips, 932 Output Cord for Recorder.

※Specifications are subject to change without notice.

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