



# Accurate Measurement by Triaxial Sensor and True RMS. Most Compact, but High Performance.

## Accurate Measurement by Triaxial Sensor

For single-axis magnetic field meter, measurement must be incorrect if the sensor is not directed to the object to be measured. SK-8301 incorporates triaxial sensor that can measure X, Y, and Z axes simultaneously which assures accurate measurement regardless of the sensor direction.

**In the field of multiple electromagnetic sources**

X : Right and left  
Y : Back and forth  
Z : Up and Down

Electromagnetic comes from mixed directions if multiple sources are existing. Even in such field., SK-8301 can measure correct magnetic flux density by its triaxial (X, Y, Z) sensor.

## True RMS

Due to large distortion contained in electromagnetic wave, measurement result by average rectification meter should be incorrect. SK-8301 measures in True RMS and the measurement result is always accurate.

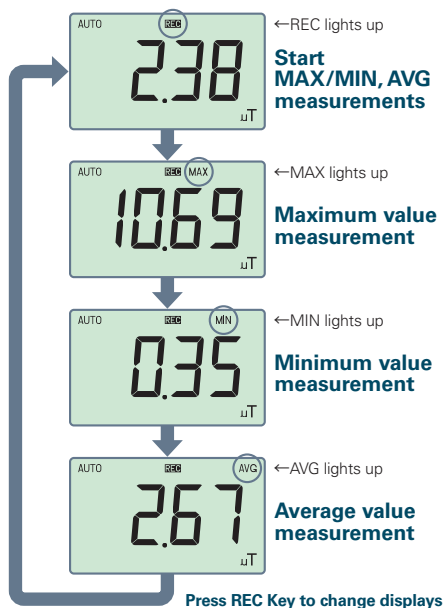
## Two Measurement Units

$\mu\text{T}$  or mG are selectable when turning on the power.

MAX 200.0  $\mu\text{T}$     MAX 2000 mG

## MAX/MIN and Average

MAX/MIN and Average measurements are possible.



## High Performance

The most compact triaxial and True RMS magnetic field meter with high performance.

## User-Friendly Design

Double-molded rubber to get steady grip during the measurement.



## Built-in Triaxial Sensor

Quick measurement is possible without connecting any external sensor. Also provides high portability.

## Display Hold

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

## Auto Power Off

Power turns off automatically after approx. 30 minutes.

## CE Marking Approved

CAT I 600V

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

Model	SK-8301			
	Range	Accuracy	Resolution	Maximum Input
$\mu\text{T}$ measurement (Auto-ranging)	20.00 $\mu\text{T}$ 200.0 $\mu\text{T}$	$\pm 2\% \text{rdg} \pm 5 \text{dgt}$ (50/60Hz) $\pm 5\% \text{rdg} \pm 5 \text{dgt}$ (40Hz to 1kHz)	0.01 $\mu\text{T}$ 0.1 $\mu\text{T}$	200.0 $\mu\text{T}$
mG measurement (Auto-ranging)	200.0mG 2000mG	$\pm 2\% \text{rdg} \pm 5 \text{dgt}$ (50/60Hz) $\pm 5\% \text{rdg} \pm 5 \text{dgt}$ (40Hz to 1kHz)	0.1mG 1mG	2000mG
Functions	MAX/MIN, Average, Display Hold, Auto Power Off			

Display (LCD)	2000 count, Maximum reading 2000, 15mm high	Operatable Temperature & Humidity	0°C to 40°C, 80%RH or lower in non-condensing.
Operating Principle	Triaxial True RMS (X, Y, Z)	Storage Temperature & Humidity	-20°C to 60°C, 70%RH or lower in non-condensing.
Sampling Rate	2 times / second	Temperature Coefficient	Accuracy in 23°C ±5°C × 0.1 / °C
Range Selection	Auto-ranging	Safety Level	CE Marking approved (IEC-61010-1, CAT I 600V and EMC Test passed.)
Response Speed	Within 2 seconds	Power Supply	1.5V R6P (AA) batteries × 2
Rectification	True RMS	Power Consumption	20mA
Measurement Unit	$\mu\text{T}$ / mG (selectable when turning on the power)	Continuous Operating Time	Approx. 100 hours (Alkaline cell), Approx. 50 hours (Manganese cell)
Overload Indication	"OL" indication when exceeding 2000 count	Dimensions & Weight	148 (H) × 83 (W) × 33 (D) mm, Approx. 220g (including batteries)
Battery Warning	⚡ indication at approx. 2.3V ± 0.15V or less	Accessories	1015 Carrying Case, 1.5V R6P (AA) batteries × 2, Instruction Manual
Operating Voltage	2.3V to 3.6V		
Display Hold	Hold indicating values by DH Key		
MAX/MIN, Average	Selectable by REC Key		
Auto Power Off	Power turns off automatically after approx. 30 minutes. (only in normal measurement mode)		