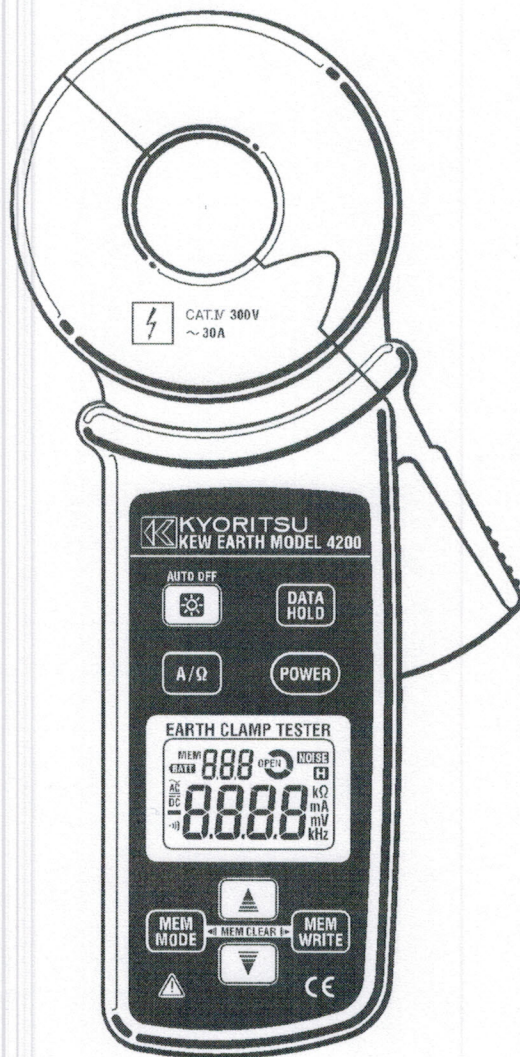
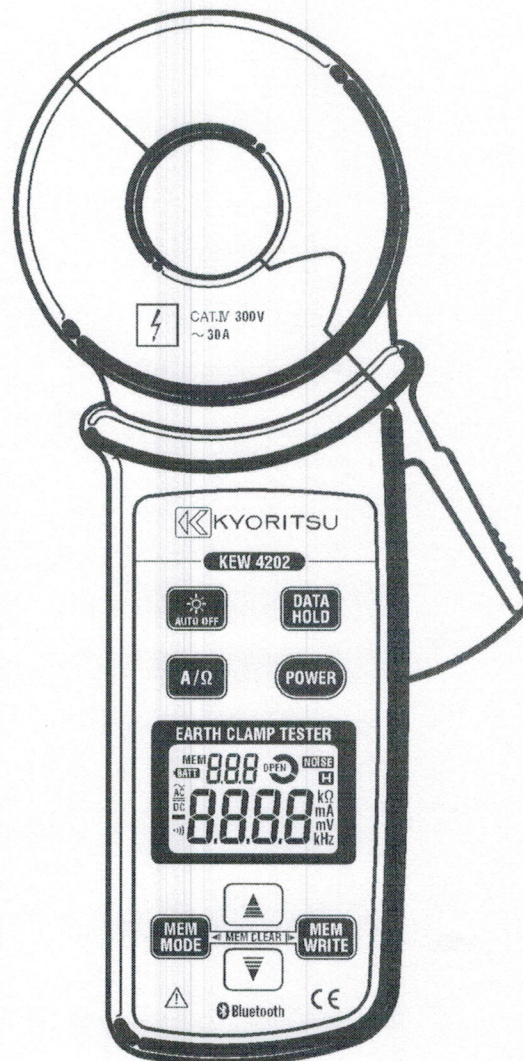


INSTRUCTION MANUAL

MODEL 4200



KEW4202



DIGITAL EARTH CLAMP TESTER

MODEL 4200/KEW 4202



**KYORITSU ELECTRICAL INSTRUMENTS
WORKS, LTD.**

Made in Japan

3. Specification

● Measuring range and accuracy

Function	Range	Resolution	Measuring range	Accuracy
Earth resistance (Auto-ranging)	20 Ω	0.01 Ω	0.00 - 20.00 Ω	$\pm 1\% \pm 5\text{dgt}$
	200 Ω	0.1 Ω	20.0 - 200.0 Ω	$\pm 3\% \pm 5\text{dgt}$
	600 Ω	1 Ω	200 - 399 Ω	$\pm 6\% \pm 5\text{dgt}$
			400 - 599 Ω	$\pm 10\% \pm 10\text{dgt}$
	1500 Ω	10 Ω	600 - 1580 Ω	-
AC current (ACA) (50Hz/60Hz) (Auto-ranging)	100mA	0.1mA	0.0 - 100.0mA	$\pm 2\% \pm 5\text{dgt}$ (sine wave)
	1000mA	1mA	100 - 1000mA	
	10A	0.01A	1.00 - 10.00A	
	30A	0.1A	10.0 - 30.0A	

* Crest factor ≤ 2.5 Accuracy at sine wave $+1\%$ (50Hz/60Hz, peak value shall not exceed 60A)

* In the following cases, zero will be displayed on the LCD.

- At 20 Ω range of Earth resistance function: 0.04 Ω or less

- At 100mA range of ACA function: 0.4mA or less

* A range shifts to upper range when the input exceeds 105% of the selected range, and shifts to the lower range when the input falls under 80% of the range.

● Operating system

Earth resistance function: Constant voltage injection,
Current detection,
(Frequency: Approx.2400Hz)
Dual Integration

● Display

● Over-range indication

AC current function: Successive Approximation (True-RMS)
Liquid crystal display with a maximum count of 2099
"OL" is displayed when input exceeds the upper limit
of the measuring range

● Response time

Earth resistance function : Approx. 7 seconds

AC current function : Approx. 2 seconds

● Sample rate

Approx. once per second

● Location for use

Altitude 2000m or less, Indoor/ outdoor use

● IP protection degree

IP40

● Temperature & humidity range (guaranteed accuracy)

23°C $\pm 5^\circ\text{C}$ /Relative humidity 85% or less
(no condensation)

● Operating temperature & humidity range

-10°C to 40°C /Relative humidity 85% or less
(no condensation)

● Storage temperature & humidity range

-20°C to 60°C /Relative humidity 85% or less
(without batteries, no condensation)

● Power source

DC6V: R6P (size AA manganese battery) x 4pcs, or
LR6 (size AA alkaline battery) x 4pcs

● Current consumption

MODEL4200 : Approx. 50mA (max. 100mA)

KEW4202 : Approx. 90mA (max. 140mA)

● Measurement time

MODEL4200 : Approx. 12 hours (when using R6P), or
24 hours (when using LR6)

KEW4202 : Approx. 5 hours (when using R6P), or
21 hours (when using LR6)