

HIOKI

CLAMP ON CURRENT METER

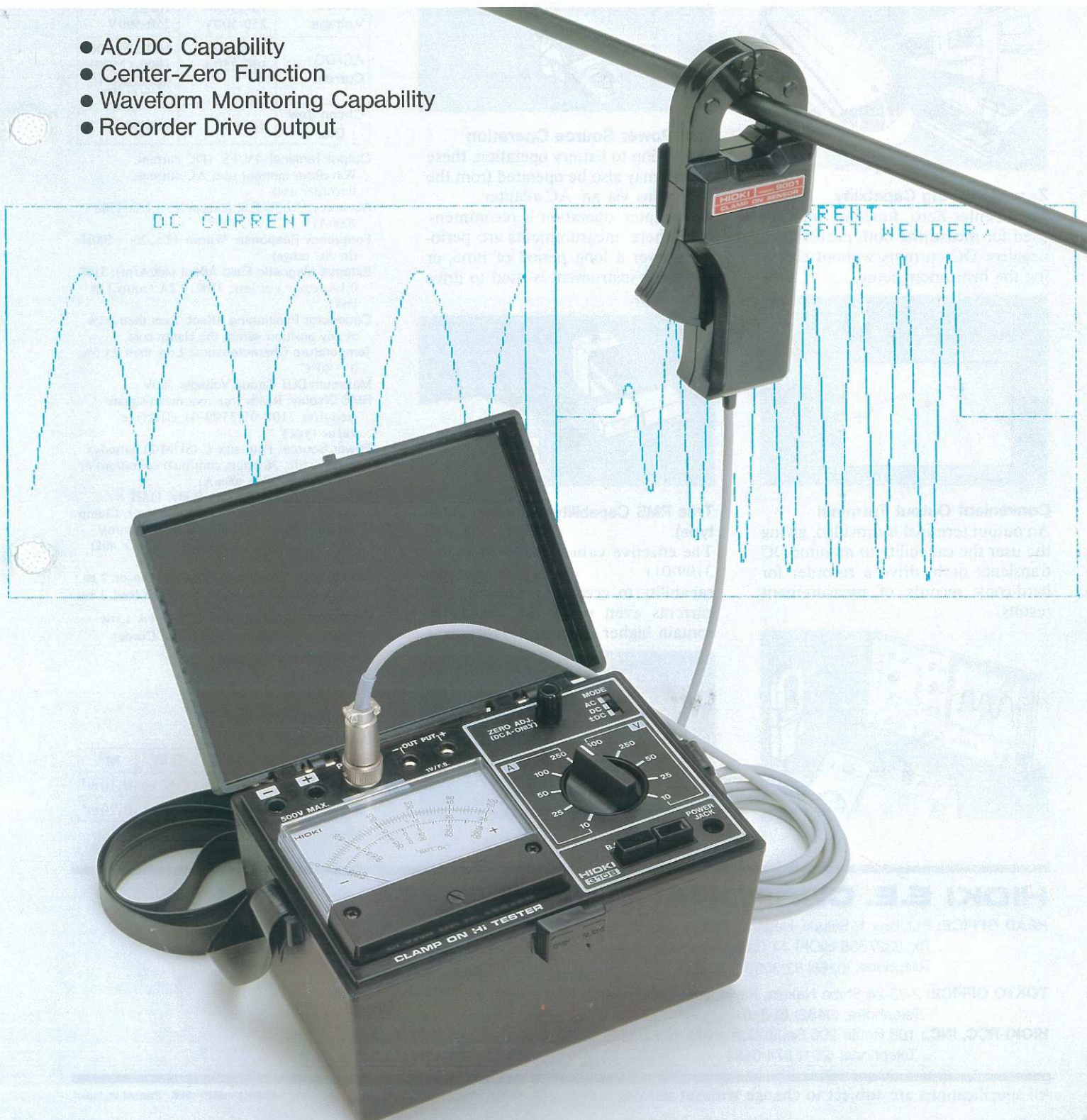
3108·3109 DC CLAMP ON HI TESTER

3 1 0 8
3 1 0 9

3108 ... 0~250A, 3109 ... 0~2000A

Versatile Functions Make Current Measurement Even Easier.

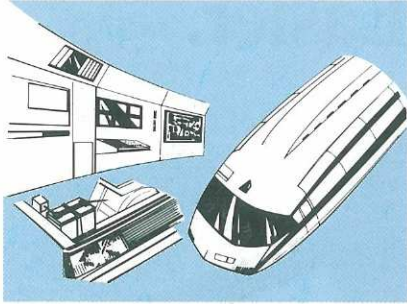
- AC/DC Capability
- Center-Zero Function
- Waveform Monitoring Capability
- Recorder Drive Output



Center-Zero, Positive-Negative Readings — An Invaluable Asset in DC Current Measurement Applications.

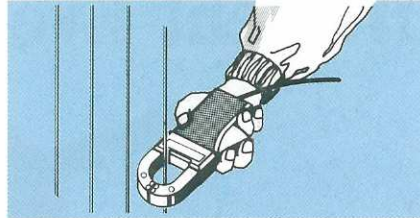
Wide Range Measurement Capability

The wide current range covered by these instruments make them valuable assistants in servicing systems both large- and small-scale. The measurement range of the 3108 is from 10A to 250A; with the higher capacity 3109 providing measurement capability between 100 and 2000 amperes.



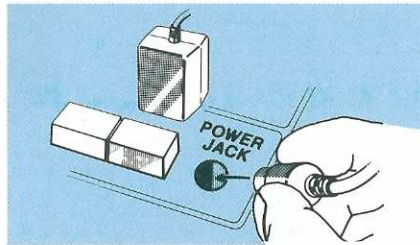
High Measurement Accuracy for Both AC and DC Functions

The clamp sensor consists of high permeability magnetic materials and Hall element sensors. This results in high measurement accuracy and minimizes errors due to conductor positioning, or external magnetic fields. Frequency response up to 500Hz is also extremely good.



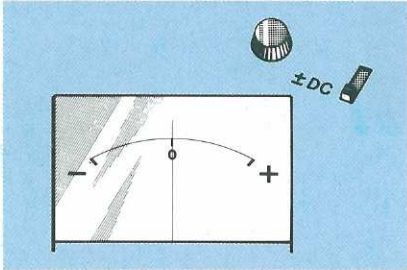
Dual Power Source Operation

In addition to battery operation, these meters may also be operated from the AC mains via an AC adapter. AC adapter operation is recommended where measurements are performed over a long period of time, or when the instrument is used to drive a recorder.



Zero-Centering Capability

The Center-Zero function may be used for measuring both positive and negative DC currents without changing the instrument setup.



Convenient Output Terminal

An output terminal is provided, giving the user the capability to monitor DC transients or to drive a recorder for hard-copy records of measurement results.

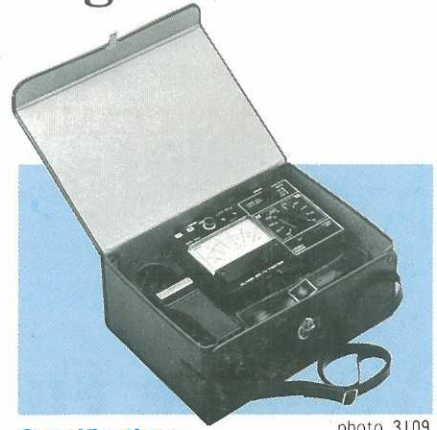
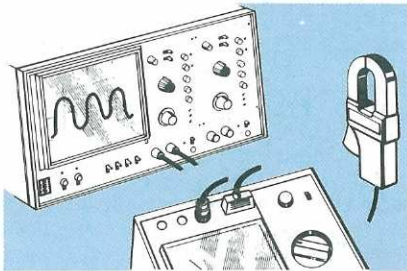


photo 3109

Specifications

| Measurement Range | 3108 | 3109 |
|-------------------|-------------------|--|
| AC/DC Voltage | 10-25-50-250-500V | 10-25-50-250-500V |
| AC/DC Current | 10-25-50-100-250A | 100-250-500-1000-(2500)A Measurement effective to 2000A |
| Clamp Jaw Dia. | φ 30mm | φ 46mm |

Output Terminal: 1V/FS (DC current: Waveform monitor use; AC current: Recorder use)

Accuracy: $\pm 2.5\%$ F.S. (except $\pm 5\%$ F.S. 1500 ~ 2000A)

Frequency Response: Within $\pm 1\%$, 20 ~ 500Hz (in AC range)

External Magnetic Field Affect (400A/m): 3108, 0.1A (equiv.) or less; 3109, 0.2A (equiv.) or less

Conductor Positioning Affect: Less than $\pm 1\%$ at any position within the clamp core

Temperature Characteristics: Less than $\pm 1.5\%$, 0 ~ 40°C

Maximum DUT Circuit Voltage: 500V

RMS Display: Reads true root-mean-square (requires 3108-01, 3109-01 effective value type)

Power Source: Four size C (SUM-2) batteries (battery life: 36 hours continual operation) or AC adapter (6V-300mA)

Dimensions/Weight: Main Body: 115H × 200W × 135D (mm)/1.25kg (approx.); Clamp Sensor (3108): 175H × 85W × 40D (mm)/600g (approx.), (3109): 190H × 90W × 40D (mm)/650g (approx.)

Accessories Furnished: Clamp-on sensor, 1 ea.; 9083 Carrying case, 1 ea.; 9060 Test lead, 1 ea.

Optional accessories CT-101A Line Splitter 8201, 8202 Micro Hi Corder

Effective value type

3108-01

3109-01

Standard Packing

(Double carton box)

| Model | Sets | N.W. | G.W. | M ³ |
|-------|------|-------|-------|---------------------|
| 3108 | 5 | 15 kg | 17 kg | 0.10 m ³ |
| 3109 | 5 | 15 kg | 17 kg | 0.10 m ³ |

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