

MEASUREMENT GUIDE

8807-01 8808-01 8807-51 8808-51

MEMORY HICORDER

HIOKI E.E. CORPORATION

Measurement Guide

This Measurement Guide provides examples of settings for actual measurements using the 8807-01, 8808-01, 8807-51, 8808-51. The Guide provides only the minimum required information: please read the Operating Manual for usage in particular applications, and the notes about the measurement operations, before beginning to measure.

The following three examples are provided:

- (1) Measuring the voltage waveform of a 220 V AC source (Memory Recorder Function)
- (2) Measuring the RMS voltage of a 220 V AC source (RMS Recorder Function)
- (3) Measuring a current waveform using the 9018-10 (Memory Recorder Function)



Measurement Example Wiring Diagram

NOTE

The printer cannot be used with alkaline batteries: use either the 9418-15 AC ADAPTER or 9447 BATTERY PACK when using the printer. **Screen Configuration**



(MEM): Memory recorder function/ (REC): Recorder function/ (RMS): RMS recorder function

(1) Measuring the Voltage Waveform of a 220 V AC Source (Memory Recorder Function)

This example describes how to measure the voltage waveform of a 220 V AC (50 Hz) commercial power source using the Memory Recorder function.

Move the flashing cursor using the cursor keys ($\square \square \square$), and use the \blacktriangle and \blacktriangledown keys to make a setting.







Start Measurement



Press the START key to start measurement. The unit remains in the Trigger Waiting Condition until the trigger condition occurs. When the trigger occurs, the waveform is input for the set recording length.





(2) Measuring the RMS Voltage of a 220 V AC Source (RMS Recorder Function)

This example describes how to measure the voltage waveform of a 220 V AC (50 Hz) commercial power source using the RMS Recorder function.

Move the flashing cursor using the cursor keys $\Box \Box \Box \Box$ and make a setting using the \blacktriangle and \triangledown keys.





Start Measurement



Press the START key to start measurement. Waveform input starts for the set recording length. Printing starts at the same time.



- NOTE
- When operating from the AC adapter, real-time printing requires that the time axis range be no faster than 1 s/DIV.
- When operating from the Battery Pack, real-time printing requires that the time axis range be no faster than 2 s/DIV.

(3) Measuring a Current Waveform Using the 9018-10 (Memory Recorder Function)

The 8807-01, 8808-01, 8807-51, 8808-51 MEMORY HiCORDER can measure only voltage by itself, but when connected with the 9018-10 CLAMP ON PROBE, it can also measure current.



the ranges of the two units do not correspond, incorrect values are displayed.



Start Measurement START STOP Press the START key to start measurement. The unit remains in the Trigger Waiting Condition until the trigger condition occurs. When the trigger occurs, the waveform is input

for the set recording length.





Printing Example

When the List&Gauge setting is set to "Gauge" or "List&Gauge" on the Environment screen, the gauge is printed with the waveform. The gauge is displayed as 'A' (Amperes) with the input coupling settings in effect.



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