



Oscilloscope-like Waveform Observation, Plus Recording of RMS Variations - In a Single Device!

RMS recording function makes its debut on this device!

Enhancing the ultra-compact oscilloscope-functioning Hioki 8870, the new MR8870 features a new RMS recording mode and real-time save to a CF card.

- Measure safely, with isolated input for all channels Test commercial power lines with ease of mind thanks to isolated input for both channels
- Monitor instantaneous waveforms on-site High-speed waveform observation/recording with 1 M sampling, despite compact size
- **Monitor fluctuations in commercial power lines** Real-time recording of data to CF card with 1 ms recording interval in a compact package
- Synchronize two HiCORDERs together to measure three-phase lines and other channels needing three or more channels

Bundled PC application enables integration/observation of synchronized data from two HiCORDERs on a single screen







Memory An oscilloscope in the palm of your hand

Capture unpredictable phenomena using waveforms!

Recording of EV and HEV starting current waveforms

The MR8870 can be used with a clamp-on AC/DC current sensor to observe the current waveform at motor start. Hioki's clampon sensor line covers a frequency band ranging from DC to frequencies of 10 kHz and higher.



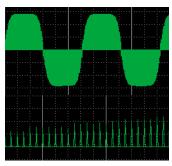
The photograph shows the MR8880, the MR8870's four-channel sister product.

Check inverter output waveforms

Inverter performance analysis requires simultaneous observation of the high frequency carrier signal and the low frequency fundamental waveform being switched. The combination of high-speed sampling capability and highcapacity memory make these

CB timing measurements

circuit breakers. Use logic probes to



observations possible. For current waveform observations, use Hioki clamp sensors capable of high-frequency measurements without direct electrical contact.

Analyze the relationships of multi-point logic signals and analog

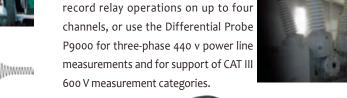
waveforms to detect timing issues that can affect power supply

Recording of motor rush current

Motor power-on inrush current waveforms can be precisely recorded. The Clamp On Probe the 9018-50 is available for current measurement, as is the Clamp On Leak HiTester 3283. In addition, to measure direct current waveforms, a variety of Current meters such as the CLAMP ON AC/DC HITESTER 3284/3285 are available upon request.

















For high voltage measurement DIFFERENTIAL PROBE P9000-01, P9000-02

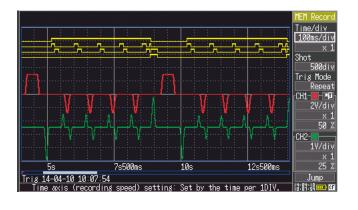
For high voltage measurement DIFFERENTIAL PROBE 9322

Analysis of sequence controller issues

When sequence controllers being used in applications such as production and testing lines stop due to errors or generate warning output, potential causes include momentary AC power interruptions and brownouts. The MR8870 is ideal for analyzing the operation of such systems since it can record the correlation of sequence relay signals, AC power circuits, and DC voltage circuits

as waveforms using power supply anomalies as a trigger.







A pen-free recorder in the palm of your hand

Long-term RMS fluctuation recording!

Pen- and paper-free recording

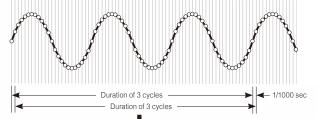
A substitute for the Hioki Micro HiCorder



The photo above shows the Hioki 8205-10 and 8206-10 Micro HiCorders. These products are no longer available.

RMS value calculation method

RMS values for three AC waveform cycles are calculated 1,000 times every second (see figure below). Readings other than maximum and minimum values are eliminated based on the set recording interval, and the resulting data is displayed and saved.



AC RMS data recording

Use the device in conjunction with an AC voltage input and a clamp current sensor to record RMS values for current. Input instantaneous waveforms are acquired via high-speed sampling at 200 µsec. RMS data is staggered at a rate of 1000 times per second as it is computed – not even abrupt fluctuations will escape notice.

RMS data recorded in internal memory

The RMS recorder can output data into the internal memory at rates of up to once per millisecond. Internal memory recordings of up to 10,000 div (1 million data items) are supported. Furthermore, if you set automatic saving to storage media, the device writes data to the media (at each recording interval) in real time as it makes measurements.

- * A new data file is created for each 10,000 div worth of data.
- * It is possible to save the data repeatedly up until the media's full capacity is reached, but after that periods of dead time (when measurement is not possible) will occur every 10,000 div.



Tough & Professional



Compact and lightweight

Small-bodied design for ease of portability

Volume is just 30% and weight just 40% of Hioki's 4-channel Memory HiCorder, the MR8880 – a 70% and 60% reduction, respectively.

A waveform measurement instrument that you can slip into your briefcase and carry anywhere. Should you suddenly discover you need it on a work trip, you can simply take it out and begin to use it, just as you would a tester.



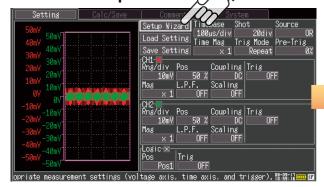




Intuitive, no-fuss operation

Built-in Setup Wizard to help you get started

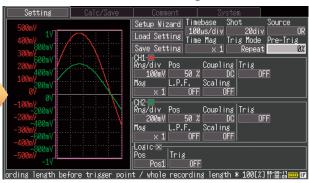
Activate the Setup Wizard



When powered on, the Settings screen appears along with the waveform monitor, and the new Setup Wizard blinks.

By activating the Setup Wizard, you can easily navigate by following the simple instructions. Soon you will be operating the device like a seasoned professional.

Real-Time waveform monitoring



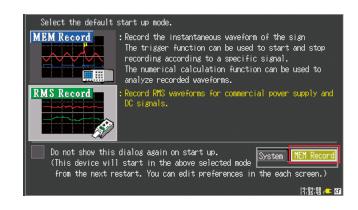
The help text crawls along the bottom of the screen, describing the function of the setting at the blinking cursor.

The enhanced "Waveform Monitor" window with level meter display facilitates changes to settings by simultaneously displaying real-time input waveforms.

Select mode at start-up

No unnecessary fuss before you can start working. You select which measurement mode to use (memory recorder or RMS value recorder) when you switch on the

Choose the mode once, and you'll never need to select it again.





■ Pseudo-real-time data recording to media (MEM data)

The memory recorder's instantaneous waveform recording functionality automatically saves data to storage media in a way that minimizes the interval during which the instrument cannot perform measurement while data is being saved (so-called dead time). This approach allows the instrument to

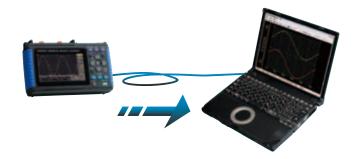
write data up to the set recording length to media in real time (for each sampling interval) while continuing measurement with a time axis setting of 50 ms/div. or slower.



■ Binary data (MEM/RMS data) loadable into PC

You can copy data saved on the CF card to a PC in two ways: via the card, or by connecting the MR8870 to the PC with a USB cable. The bundled PC application lets you display waveforms on the PC and print them out.

* The MR8870 is not provided with a communication function for controlling it from a PC connected to it with a USB cable.



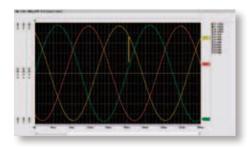
Synchronize two HiCorders together for 4ch recording! (MEM data)

For those times when 2-channels are just not enough, synchronize two MR8870's using the external trigger I/O terminals (apply the trigger output from one to the

external trigger input of the other). Then use synchronous start to automatically record four channels of measurement data to a CF card.



• Use the bundled software to composite waveform files. For example, to monitor the waveforms of a 3P 200 V line, you can use two HiCorders at the same time and view the waveforms of all 4 channels on the same screen on the PC.

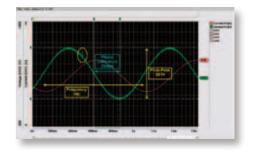


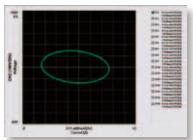
■ Waveform display and printing, and CSV conversion with PC (MEM data, RMS data)

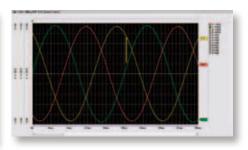
Open a data file with the dedicated Wave Processor (PC application program) for the MR8870/8870, to import and print waveforms with your own arrow and figure annotations. Of course, screen data can be copied and pasted into common Word and Excel documents to easily create reports.

■ Features of the Dedicated Wave Processor Program (supplied accessory)

- Designed especially for MEMORY HICORDER MR8870/8870
 Application program displays and prints waveforms, and converts measurement data to CSV text files on a Windows PC.
- Provides X-Y display capability not available on the HiCorder
- Generate reports using templates, with figure annotations and entered comments
- Multiple files can be batch-converted to CSV data
- Use two HiCorders to monitor 3 or 4 channels of waveforms that are measured using the same time axis range on the same PC window.







■ Specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)

ONS (Accuracy guaranteed for 1 year, Post-adjustment accuracy	
tions	
Memory recorder (high-speed recording), RMS recorder (50/60 Hz, or DC only) 2 analog and 4 logic channels (For analog inputs, channels are isolated form each other and from frame GND. For logic terminals, all channels has common GND.)	
1 MS/s (1 µs period, all channels simultaneously)	
12 bits × 2 M-Words/ch CF card Type I slot (standard equipment) ×1: Up to 2 GB, supports FAT, or	
FAT-32 format Memory items: Setting condition, measurement data (binary or text),	
screen shot, result of numerical calculation, reduced text saving data Clock and settings: 5 years or more (@25°C 77°F) Waveform backup function: available when Battery pack 9780 is installed with charge remaining or AC adapter is connected (up to	
100 hours with fully charged battery pack). Terminal block: External trigger input, trigger output	
USB: USB 2.0, mini-B receptacle ×1 port, Function: Transfer files from the installed CF card to a PC via USB cable, but communication functions such as the capability to change HiCorder settings from the PC are not provided.	
4.3-inch TFT color LCD (480 × 272 dots)	
Waveform section: 20 div (time axis) \times 10 div (voltage axis) (1 division = 20 dots \times 20 dots)	
MR8870-20: English, Japanese (Default settings: English) MR8870-30: Chinese, English, Japanese (Default settings: Chinese) Note: Korean (special order only, please contact Hioki)	
Operation: 0°C (32°F) to 40°C (104°F), 80 % rh or less Storage: -10°C (14°F) to 50°C (122°F), 80 % rh or less	
Safety: EN61010, EMC: EN61326, EN61000-3-2, EN61000-3-3	
AC Adapter Z1005: 100 to 240 V AC, 50/60 Hz Battery pack 9780: continuous operation times: approx. 2 hours (reference value at 25°C/77°F, waiting for trigger) (AC adapter has priority when used in combination with battery pack) DC power supply: 10 to 16 V DC (please contact your Hioki distributor for connection cord, max. 3 m/9.84 ft length)	
30 VA max. (When using the AC adapter and charging internal battery pack 9780) 10 VA max. (When using external DC power supply and charging internal battery pack 9780) 3 VA max. (When using the battery pack 9780)	
The installed battery pack charges when the AC adapter is connected. Charging time is about 200 minutes (reference value at 25°C/77°F) Notes: Charging time depends on battery condition. Charging is disabled to protect the battery at ambient temperatures out of 5°C (41°F) to 30°C (86°F).	
Approx. 176 mm (6.93 in) W \times 101 mm (3.98 in) H \times 41 mm (1.61 in) D, 600 g (21.2 oz) (with the Battery pack 9780 installed)	
Instruction Manual ×1, Measurement Guide ×1, AC adapter Z1005 ×1, Strap ×1, USB cable ×1, Application Disk (Wave Processor Program for the 8870) ×1, Protection sheet 9809 ×1	
ns (For memory recorder only)	
Single, continuous Two analog channels, four logic channels, external trigger (falls below 2.5 V, or shorted terminals), ON/OFF switching of each source, AND/OR between sources,	
manual triggering • Level: Triggering occurs when preset voltage level is crossed (upwards or downwards) • Voltage drop: Triggering occurs when voltage drops below peak voltage setting (for 50/60 Hz AC power lines only) • Window: Triggering occurs when window defined by upper and lower limit is entered or exited	
0.5% f.s. (f.s.=10 divisions)	
1, 0, or ×, Pattern setting	
Set by the number of samples, from 0 to 100 samples, in five steps Trigger output: open collector 5 voltage output, active low with at	
least 1 ms pulse width	
(Accuracy at 23 ±5°C/73 ±9°F, 80 % rh or less, after 30 minutes of warm-up time) Number of channels: 2, for voltage measurement	
Isolated BNC connector (input impedance 1 MΩ, input capacitance 7 pF) Max. rated voltage to earth: 300 V AC, DC, CAT II (with input isolated from the unit, the maximum voltage that can be applied between input	
channel and chassis and between input channels without damage) 10 mV to 50 V/div, 12 ranges, full scale: 10 div, AC voltage for possible measurement/display using the memory function: 280 V rms,	
Low-pass filter: 5 /50 /500 /5 kHz 1/100 of measurement range (using 12-bit A/D conversion, measurement	
range is ±10 times range value) 1 MS/s (simultaneous sampling in 2 channels)	
$\pm 0.5 \%$ f.s. (after zero-adjust, in measurement range, f.s. = 10 div)	
DC to 50 kHz -3dB	
DC/GND	
400VDC (the maximum voltage that can be applied across input pins without damage)	
Numerical value display: instantaneously value, or RMS value (DC, or 50/60 Hz only) (cannot select at measuring) Waveform display zoom at voltage axis ×2 to ×10, compression ×1/2, ×1/5 Note: X-Y display N/A (X-Y possible on PC screen by supplied software only)	

Talliced for 1 year)		
Memory recorder (high-speed recording)		
Measurement targets	Instantaneous waveform of DC to AC waveform recording / monitor	
Time axis	100 µs to 5 min/div (100 samples/div) 20 ranges Time axis zoom: ×2 to ×10 in 3 stages, compression: 1/2 to 1/1000 in 9 stages	
Sampling period	1/100 of time axis range (minimum 1 µs period)	
Recording length	20 to 20,000 div, or continuous (available at 50 ms/div to 5 min/div only) Note: limited by timebase, only the last 20,000 div are saved	
Pre-trigger	Record data from before the trigger point at 0 to 100% of the recording length in 13 stages	
Calculation functions	Numerical calculation: Up to four simultaneous calculations (common to all channels), calculation results are saved to CF card Calculation contents: average, peak-peak, maximum and minimum values, RMS, period and frequency Calculation range: specified by A/B cursors or whole recording length Waveform processing: N/A	

■ Recording Time to internal memory using memory recorder mode (abridged)

- If you set automatic saving of binary-format data to the CF card in the 50-ms/div-and-slower range of the time axis, data is saved simultaneously with measurement. This considerably reduces the amount of dead time (the period from the completion of the saving of internal memory data (of the applicable capacity below) to the CF card, to when measurement/recording begins again). This is a new function the MR8870 is the first in the series to feature it.

 The possible length of a single measurement/recording is the length given below for the applicable time axis range.
- range.
- range.

 The maximum recording length is the same whether 1 or 2 channels are used.

 The internal memory capacity is 4 MB/channel. Media capacity depends on the card (for example, 512 MB).

Time axis	Sampling period	Recording length 20,000 div Max. 1 div = 100 sampling data
100 μs/div	1 μs	2s
1 ms/div	10 μs	20s
10 ms/div	100 μs	3min 20s
100 ms/div	1 ms	33min 20s
1 s/div	10 ms	5h 33min 20s
10 s/div	100 ms	2d 07h 33min 20s
1 min/div	600 ms	13d 21h 20min 00s
5 min/div	3.0 s	69d 10h 40min 00s

RMS recorder	(high-speed recording)
Measurement targets	Commercial power line (50 ±1 Hz/ 60 ±1 Hz), DC Note: Logic measurement N/A
Measurement mode	Selectable for each channel (AC voltage, DC voltage, AC current, DC current)
Input ranges	Selectable for each channels on measurement mode • AC voltage: 100 V, 200 V system (400 V, 600 V system using the Differential Probe) • AC current: 10 A to 5000 A rms f.s., 10 mA rms f.s. to (depending on the current sensor in use) • DC voltage: 100 mV to 500 V f.s. (500 V to 2000 V f.s. using the Differential Probe) • DC current: 10 A to 2000 A f.s. (depending on the current sensor in use)
RMS accuracy	± 3.0 % f.s. (after zero-adjustment, add current sensor accuracy in use)
Recording interval	1 ms to 1 minutes in 16 stages, Sampling period: 200 µs fixed (AC voltage / AC current: 1000 RMS data/second) Envelope mode: always ON Note: Record maximum/minimum value pairs each recording interval
Recording time	10,000 div Note: If recording stops before 10,000 div is reached, only the data up to that point can be displayed and saved.
Other functions	Time axis zoom/compression: 100 ms to 1 days/div Numerical calculation N/A
Repeating functions	Single / Repeat selectable Note: external trigger terminal cannot use

■ Recording Time to internal memory using RMS recorder mode (abridged)

- If you set automatic saving to the CF card, data is saved simultaneously with measurement at all times.
 The possible length of a single measurement/recording is the applicable time given below.
 The internal memory capacity is 4 MB/channel. Media capacity depends on the card (for example, 512 MB).

Recording interval	Sampling period	Recording length 10,000 div Max. 1 div = pair of (Max. / Min.) data × 100
1 ms	200 μs	16min 40s
10 ms	200 μs	2h 46min 40s
100 ms	200 μs	1d 3h 46min 40s
1 s	200 μs	11d 13h 46min 40s
10 s	200 μs	115d 17h 46min 40s
30 s	200 μs	347d 5h 20min 0s
1 min	200 μs	694d 10h 40min 0s

(20)

Other functions		
Convenient functionality	Setup Wizard – guides you through the settings. Waveform monitor – lets you make settings while waveforms are displayed, and reflects the changes on the display in real time.	
Saving to external memory	Automatic saving of measurement data to CF card Note: In the 50-ms/div-and-slower time axis range, binary-format waveform data is saved simultaneously with measurement, shortening the dead time due to writing. Updating save possible (old files are deleted as new files are saved)	
Cursor readout function	Readouts of potential at A/B cursor position, time since triggering, time difference and potential difference between A and B cursor positions, and frequencies at their positions	
Scaling functionality	Settable for individual channels • Memory recorder: OFF, model setting, conversion ratio setting, 2-point setting method • RMS value recorder: For voltage: OFF, model setting. For current: sensor model setting.	
Other functions	Comment entry, screen capture, gauges, start condition preservation, auto setup, waveform scrolling (possible during measurement)	

■ Software specifications (Bundled accessory)



	-		
Wave Processo	Wave Processor Program for the 8870 (Bundled accessory)		
Supported measure- ment instruments	MR8870-20, 8870-20		
Operating environ- ment	Computer running under Windows 8/7 (32/64-bit), Vista (32-bit), XP		
File loading	Loadable data format: Memory function data (MEM extension) of the MR8870-20/ 8870-20 Max. loadable file size: The maximum size that can be stored by the MR8870-20/ 8870-20 (subject to the capacity of the PC's operating environment) Waveform Composite Function: Composite the waveforms of up to 8 HiCorders (16 analog channels)		
Overwriting save	Overwrites saved scaling and title/channel comments		
Slide show display	Sequentially displays waveform files in the same folder		
Text conversion	Data conversion format: Select from CSV, tab-separated or space-separated Object data range: Whole range, or between cursors Data thinning: Available by specifying interval Conversion methods: Analog waveform data to voltage values, logic data is converted to ones and zeros Conversion channels: selectable Header contents: Title, trigger date, timebase, comments, per-channel setting conditions Batch conversion: specify multiple files for batch conversion		
Displaying	Display language: English or Japanese (select during installation) Waveform display: Scroll and magnify/reduce the time axis of the displayed waveform data image, move the zero position of each channel, zoom and set the vertical axis of each channel independently (variable gain) Numerical value display: included Cursor functions: Manipulate A and B cursors independently, and display time and voltage numerically. Max. displayable channels: 16 analog and 32 logic channels Gauge display: Time gauge (absolute or relative time, seconds, data points), voltage gauge (for each channel) Figure annotations: Text boxes, straight lines, arrows, circles and rectangles at any location Screen capture: Extended meta format, bitmap format Search functions: Date, maximum, minimum, level and window search Template function: Save and reload waveform file display configurations		
Printing	Printer support: Color and monochrome printing on printers supported by the operating system Printable ranges: All data, screen capture and specifiable areas Print formats: Undivided, 2, 4, 8 divisions, 2, 4, 8 or 16 traces, 1, 2 or 4 XY screen, gauges, channel comments, zero-position comments, and A/B cursor values Print preview and waveform screen hard copy/logging print functions		

are included

■ Options specifications (Sold separately)

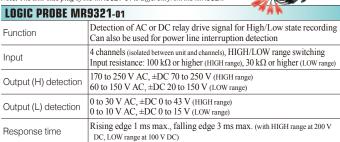
Cable length and mass: Main unit cable 1.5 m (4.92 ft), input section cable 30 cm (0.98 ft), approx. 150 g (5.3 oz)

Note: The unit-side plug of the 9320-01 is different from the 9320.		
LOGIC PROBE 9320-01		
Function	Detection of voltage signal or relay contact signal for High/Low state recording	
Input	4 channels (common ground between unit and channels), digital/contact input, switchable (contact input can detect open-collector signals) Input resistance: 1 $M\Omega$ (with digital input, 0 to +5 V) 500 $k\Omega$ or more (with digital input, +5 to +50V) Pull-up resistance: 2 $k\Omega$ (contact input: internally pulled up to +5 V)	
Digital input threshold	1.4V/ 2.5V/ 4.0V	
Contact input detection resistance	$1.4~V:~1.5~k\Omega$ or higher (open) and $500~\Omega$ or lower (short) $2.5~V:~3.5~k\Omega$ or higher (open) and $1.5~k\Omega$ or lower (short) $4.0~V:~25~k\Omega$ or higher (open) and $8~k\Omega$ or lower (short)	
Detectable pulse width	500 ns or longer	
Max. allowable input	$0\ to\ +50\ V\ DC$ (the maximum voltage that can be applied across input pins without damage)	

Cable length and mass: Main unit cable 1.5 m (4.92 ft), input section cable 1 m $\,$

(3.28 ft), approx. 320 g (11.3 oz)

Note: The unit-side plug of the MR9321-01 is different from the MR9321.



 $250\ Vrms$ (HIGH range), $150\ Vrms$ (LOW range) (the maximum voltage that can

Cable length and mass: Main unit cable 1.3 m (4.27 ft), input section cable 46 cm (1.51 ft), approx. 350 g (12.3 oz)

be applied across input pins without damage)

Max. allowable input



DIFFERENTIAL PROBE 9322 (Accuracy guaranteed for 1 year)	
Functions	For high-voltage floating measurement, power line surge noise detection, RMS rectified output measurement
DC mode	For waveform monitor output, Frequency characteristics: DC to 10 MHz (±3 dB), Amplitude accuracy: ±1 % of full scale (at max. 1000 V DC), ±3% of full scale (at max. 2000 V DC) (full scale: 2000 V DC)
AC mode	For detection of power line surge noise, Frequency characteristics: 1 kHz to 10 MHz ±3 dB
RMS mode	DC/AC voltage RMS output detection, Frequency characteristics: DC, 40 Hz to 100 kHz, Response speed: 200 ms or less (400 V AC), accuracy: ±1 % of full scale (DC, 40 Hz to 1 kHz), ±4 % of full scale (1 kHz to 100 kHz) (full scale: 1000 V AC)
Input	Input type: balanced differential input, Input impedance/capacitance: H-L 9 M Ω /10 pF, H/L-unit 4.5 M Ω /20 pF, Max. rated voltage to earth: when using grabber clip 1500V AC/DC (CAT II), 600 V AC/DC (CAT III), when using alligator clip: 1000 V AC/DC (CAT III), 600 V AC/DC (CAT III)
Max. allowable input	2000 V DC, 1000 V AC (CAT II), 600 V AC/DC (CAT III)
Output	Voltage divider for 1/1000 of input, BNC connectors (output switchable for 3 modes DC, AC, RMS)
Power source	Use the AC Adapter 9418-15, (power cannot be supplied from the logic terminals of the MR8870)

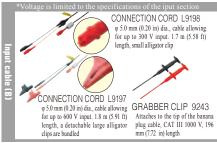
Cable length and mass: 70 cm (2.30 ft), Output side: 1.5 m (4.92 ft), 170g (6.0 oz)



•		
DIFFERENTIAL PROBE P9000 (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)		
Measurement modes	P9000-01: For waveform monitor output, Frequency properties: DC to 100 kHz -3 dB P9000-02: Switches between waveform monitor output/AC effective value output Wave mode frequency properties: DC to 100 kHz -3 dB, RMS mode frequency properties: 30 Hz to 10 kHz, Response time: Rise 300 ms, Fall 600 ms	
Division ratio	Switches between 1000:1, 100:1	
DC output accuracy	±0.5 % f.s. (f.s. = 1.0 V, division ratio 1000:1), (f.s. = 3.5 V, division ratio 100:1)	
Effective value measurement accuracy	± 1 % f.s. (30 Hz to less than 1 kHz, sine wave), ± 3 % f.s. (1 kHz to 10 kHz, sine wave)	
Input resistance/capacity	H-L: 10.5 MΩ, 5 pF or less (at 100 kHz)	
Maximum input voltage	1000 V AC, DC	
Maximum rated voltage to ground	1000 V AC, DC (CAT III)	
Operating temperature range	-40°C to 80°C (-40°F to 176°F)	
Power supply	(1) AC adapter Z1008 (100 to 240 V AC, 50/60 Hz), 6 VA (including AC adapter), 0.9 VA (main unit only) (2) USB bus power (5 V DC, USB-microB terminal), 0.8 VA (3) External power source 2.7 V to 15 V DC, 1 VA	
Accessories	Instruction manual ×1, Alligator clip ×2, Carrying case ×1	

MR8870 Options in Detail







*For P9000. Inquire with your Hioki distributor. (1) Bus powered USB cable (2) USB(A)- Micro B cable (3) 3-prong cable







Model: MEMORY HICORDER MR8870

Model No. (Order Code) (Note)

(2ch, English model)

*Test leads are not included. Purchase the leads appropriate for your application separately

*PC Card Precaution
Use only PC Cards sold by HIOKI. Compatibility and performance
are not guaranteed for PC cards made by other manufacturers. You
may be unable to read from or save data to such cards.

PC CARD 2G 9830

(2 GB) PC CARD 1G 9729

(512 MB)

*Z1005 is a bundled accessory

BATTERY PACK 9780

NiMH, Charges while installed in the main unit

SOFT CASE 9812

Includes space for small

items, neoprene rubber

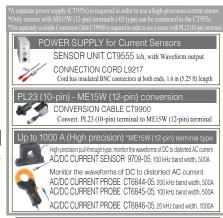
PC CARD 512M 9728

AC ADAPTER Z1005

Cord has insulated

BNC connectors at both ends, 1.6 m (5.25 ft) length

100 to 240 V AC



Precautions when connecting a high-precision current sensor to a Memory HiCorder

Connecting to the MR8880/MR8875/MR8870

• High-precision current sensor (ME15W) + C19855 + BNC cable → MR8870

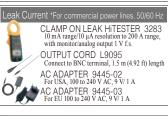
• High-precision current sensor (PL23) + C79900 + C79555 + BNC cable → MR8870

Other current sensor types

The MR8870 can be used with various types of current sensors and probes. For details, see product information on Hioki's website.









PROTECTION SHEET 9809 For LCD protection, pairs of additional sheets CARRYING CASE 9782 Includes compartment for options, resin-coated CONNECTION CORD L9217

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

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