

Product Datasheet - Technical Specifications



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Capture high- to low-voltage signals in a single device **Rugged, Professional and Ready for the Field**

CAT III 600 V insulation performance

- Maximum 600V AC/DC input no need for a differential probe
- 4 completely isolated channels let you simultaneously record data on a 3-phase power line plus have one extra channel

Tough against harsh environments

- Operating temperature range: -10°C to 50°C
- Built to withstand mechanical shocks and vibrations (ships standard with side protectors)

Make settings easily with PRESETS

Simply select what you'd like to measure and follow the onscreen instructions to select the appropriate settings. The recorder can be easily configured to measure voltage drops and power outages.



Safe & Reliable Measurement

The MR8880 offers safe, reliable operation featuring CAT III 600 V isolated inputs in a compact yet durable design that excels at taking measurements in harsh environments.



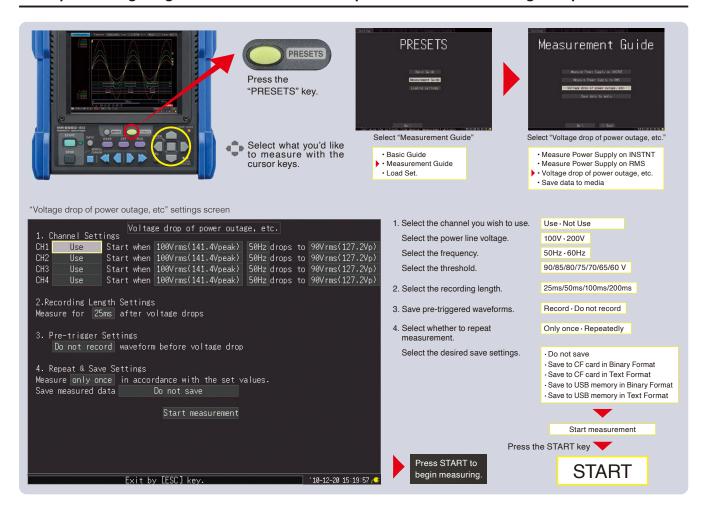
Tough & Professional

MRSS0

Settings are as Easy as 1-2-3 with PRESETS

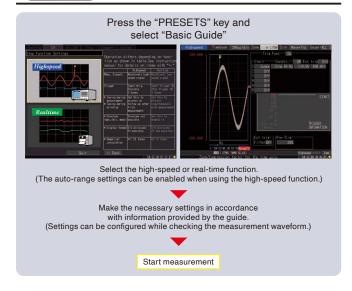
To configure the MR8880, you need only select what you'd like to measure—"Measure a commercial power supply," "Monitor a power source for a voltage drop," etc.—and follow the on-screen instructions to select the appropriate settings.

Example: Configuring the MR8880 to monitor a power source for a voltage drop:

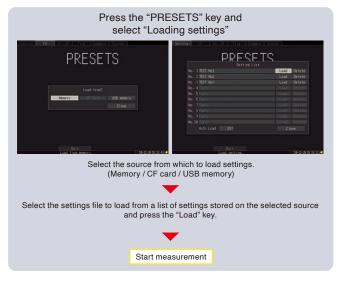


Other Convenient Functions









Applications

The MR8880 provides a turnkey solution for both high-speed measurement at 1 MS/s and long-term measurement. Its ability to measure everything from high- to low-voltage signals allows it to play an important role in a variety of measurement scenarios.



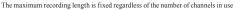
Measure the instantaneous waveform at startup or a suddenly generated abnormal waveform.

High-speed measurement using the high-speed function

- Fastest sampling period of 1 µs (measuring all channels simultaneously)
- Measurement data is recorded in the instrument's internal memory (1 MW).

■ Recording Time (Internal memory)

All channels (4 analog + 8 logic channels)			
Time Axis Range	Sampling Speed	Recording Interval	Max. Recording Time
100μs/DIV	1 MS/s	1 μs	1 s
200μs/DIV	500 kS/s	2 μs	2 s
500μs/DIV	200 kS/s	5 μs	5 s
1ms/DIV	100 kS/s	10 μs	10 s
2ms/DIV	50 kS/s	20 μs	20 s
5ms/DIV	20 kS/s	50 μs	50 s
10ms/DIV	10 kS/s	100 μs	1m 40 s
20ms/DIV	5 kS/s	200 μs	3m 20 s
50ms/DIV	2 kS/s	500 μs	8m 20 s
100ms/DIV	1 kS/s	1 ms	16m 40 s





Example record of an abnormal

A waveform recorded using a waveform judgment trigger. The judgment area can be displayed simultaneously.



Measure RMS value fluctuations for a power line over an extended period of time

Note: Use only Hioki CF cards that are guaranteed to operate with the HiCorder ■ Recording Capacity

Recording	All channels (4 analog + 8 logic channels), recording waveform (binary) data only			
Interval	Internal memory (8MB)	512MB (9728)	1GB (9729)	2GB (9830)
100µs	1m 40s	1h 25m 20s	2h 46m 40s	5h 33m 20s
200µs	3m 20s	2h 50m 40s	5h 33m 20s	11h 6m 40s
500µs	8m 20s	7h 6m 39s	13h 53m 19s	1d 3h 46m 39s
1ms	16m 40s	14h 13m 19s	1d 3h 46m 39s	2d 7h 33m 19s
2ms	33m 20s	1d 4h 26m 38s	2d 7h 33m 18s	4d 15h 6m 38s
5ms	1h 23m 20s	2d 23h 6m 34s	5d 18h 53m 14s	11d 13h 46m 34s
10ms	2h 46m 40s	5d 22h 13m 8s	11d 13h 46m 28s	23d 3h 33m 8s
20ms	5h 33m 20s	11d 20h 26m 15s	23d 3h 32m 55s	46d 7h 6m 15s
50ms	13h 53m 20s	29d 15h 5m 39s	57d 20h 52m 19s	115d 17h 45m 39s
100ms	1d 3h 46m 40s	59d 6h 11m 17s	115d 17h 44m 37s	231d 11h 31m 17s
200ms	2d 7h 33m 20s	118d 12h 22m 34s	231d 11h 29m 14s	-*-
500ms	5d 18h 53m 20s	296d 6h 56m 26s	-*-	:
1s	11d 13h 46m 40s	-*-	:	:
2s	23d 3h 33m 20s	i	:	:
:	i	i	:	:
1 min	694d 10h 40m	-*-	-*-	-*-

Long-term measurement and recording using the real-time function

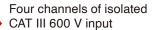
- Recording interval of 100 µs to 1 min
- Waveform data is saved directly in a binary format to a CF card or USB memory.



- Maximum recording time is inversely proportional to number of recording analog channels.
 Because the actual capacity of a CF card is less than that indicated, expect actual maximum times to be about 90% of those in the table.
- Proper operation is not guaranteed for extended recording periods (one year or longer). This type of operation impacts the product's warranty period and service life



Measure the phase voltages for all three phases of a three-phase motor simultaneously.



The MR8880 can measure the voltages at different contacts without the need for a differential probe.



Check for fluctuations in low-voltage signals such as instrumentation or sensor output.



Thanks to its 14-bit, high-resolution A/D converter and the combination of a high-sensitivity 10 mV/div range and a 5 Hz filter (for noise rejection), the MR8880 can deliver stable measurement of sensor output.



Investigate why your office's power supply occasionally exhibits instability.



The MR8880 is capable of mixed recording of RMS values, DC voltage, and logic signals, allowing it to simultaneously record data describing the interrelationships between equipment power supplies and UPS output and control signals.

Functionality and Performance

The MR8880 delivers convenient functionality designed to maximize ease of use along with exceptional performance. See how this instrument can transform your concern and discontent to peace of mind and satisfaction.



Take home data for later viewing on a computer



Data can be saved directly to external media.

- In addition to CF cards, the MR8880 can store data on handy USB memory sticks.
- Data can be saved in real time to external media (at up to 10 kS/s).
- External media can be switched while measurement continues. If the recording interval is set to 100 µs, media must be swapped outwithin 20
- External media is protected in the event of an unexpected power outage during measurement.

By backing up the internal power supply until processing to save data to the external media completes, the instrument enables highly reliable data collection.

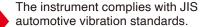


Use only HIOKI CF cards, which are manufactured to strict industrial standards, for long-term storage of important data

Note: Operation of non-HIOKI CF cards is not guaranteed



Can the MR8880 withstand the vibrations in a moving vehicle?

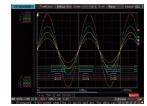


Thanks to its ability to withstand a high level of vibration, the MR8880 can be used to collect data in moving vehicles. Included side protectors further increase the device's durability.

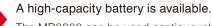


Will the screen be hard to read while taking measurements outdoors?

The MR8880 features a 5.7-inch TFT color LCD that offers excellent visibility, even while taking measurements in an outdoor setting. The display is even engineered for easy viewing in the presence of reflections.a



What if there's no power available in the vehicle being tested?



The MR8880 can be used continuously for 4 hours on battery power.



Is the printer easy to use?



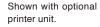


Loading recording paper is a snap thanks to the MR8880's one-touch loading mechanism.

Quickly print data on-site. (Real-time print function: 1s/div ~)

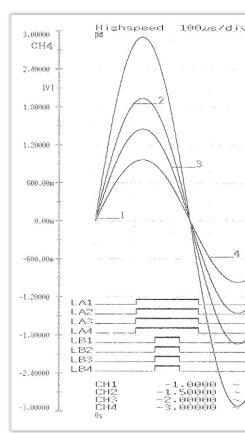
Example printout











■ Specifications (Accuracy guaranteed for 1 year)

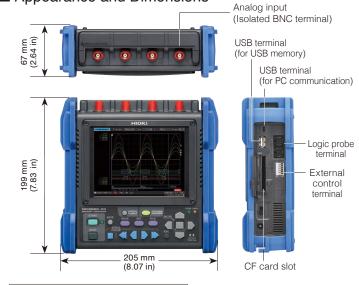
Basic specifications		High-speed function (high speed recording)		
Measurement func-	High-speed function (high speed recording)	Time axis	100μs to 100ms/div, 10 range, resolution: 100 points/div	
tions	Real-time function (actual time recording)	Sampling period	1/100 of time axis ranges	
Number of channels	4 analog + 8 logic Isolated analog channels, isolated input and outputs, logic has common GND.	Recording length	(minimum sampling period 1 µs, all channels simultaneously) 5 to 10000 divisions fixed (5division steps)	
Maximum sampling rate	1Msamples/s (1 µs cycle, all channels simultaneously)	Automatic save func-	Binary data, text data, calculation results, binary + calculation results,	
Memory capacity	14bit × 1 M words/ch (1 word = 2 bytes, not expandible)	tion	text + calculation results, or NONE	
External memory	CF card slot × 1 (Up to 2 GB, supports FAT16 and FAT32 formats) USB memory × 1 (USB 2.0 - A receptacle)	Other save functions	Save and delete function: ON/OFF	
Time accuracy (at 23°C)	Sampling time accuracy: ±0.0005 %, Clock precision: ±3s/day	Screen settings	Split screen (1, 2, or 4 segments), X-Y waveform compositing (1 screen) Can record data from before the trigger point, 0 to 100 % of	
Backup function	Clock and settings: 10 years or more (at 25°C / 77°F)	Pre-trigger	recording length; 13 settings, or user-configured	
(reference value at 23°C)	Waveform backup function: Approx. 40 minutes • When instrument is powered off at least 3 minutes after being turned on	Waveform scrolling	Backwards scrolling through past waveform data both during and after measurement	
External control	External trigger input, Trigger output, external start input, external stop input, status output, ground pin USB: 1 port USB 2.0 High Speed mini-B receptacle Functions: Configure settings/perform measurement using communications	Calculation functions	Up to four arithmetic operations simultaneously Average value, effective (RMS) value, peak to peak value, maximum value, time to maximum value, minimum value, time to minimum value, period, and frequency, area, X-Y area.	
Interface	commands: transfer file stored in CF/USB memory to computer (USB drive mode)	Real-time fund	tion (actual time recording)	
	Temperature range: -10°C (14°F) to 50°C (122°F)		100µs to 500µs, 1ms to 500ms, 1s to 1min, 19 settings	
Environmental condi-	Humidity range: -10°C (14°F) to 40°C (104°F), 80% rh or less 40°C (104°F) to 45°C (113°F), 60% rh or less	Recording interval	Display time axis: 10ms to 1day/div, 22 ranges	
tions for use (no condensation)	45°C (113°F) to 50°C (122°F), 50% rh or less When powered by BATTERY PACK Z1000:	Real-time printing	ON/OFF	
(110 condensation)	0°C (32°F) to 40°C (104°F), 80% rh or less	(with optional MR9000) Recording Time	*Simultaneous printing: Supported when using a time axis slower than 1 s/div. Continuous save to CF card or USB memory can be set ON/OFF	
	When recharging the Z1000: 10°C (50°F) to 40°C (104°F), 80% rh or less	Envelope mode	ON/OFF	
Environmental conditions for storage	Temperature range: -20°C (-4°F) to 60°C (140°F) Humidity range: 80% rh or less (-20°C (-4°F) to 40°C (104°F)), 60% rh or less (40°C (104°F) to 45°C (113°F)), 50% rh or less (45°C (113°F) to 60°C	Waveform recording	The last 1 Mwords (before measurement was stopped) are saved in the instrument's internal memory (when envelope mode is on, 500 kwords).	
(no condensation)	(140°F)) BATTERY PACK Z1000: -20°C (-4°F) to 40°C (104°F), 80% rh or less	Real-time save function	Binary data, text data, calculation results, binary + calculation results, text + calculation results, or NONE	
Compliance standard	Safety: EN61010 EMC: EN61326, EN61000-3-2, EN61000-3-3 Vibration resistance: JIS D 1601, Type 1: passenger vehicle, Conditions: equivalent to Type A	Other save functions	Split save: ON/OFF/fixed time Save and delete: ON/OFF Eject media: Media can be ejected while saving data in real time.	
Power requirements Note: LR6/AA alkaline batteries	1) AC ADAPTER Z1002: 100 to 240V AC (50/60 Hz) 2) BATTERY PACK Z1000: 7.2V DC	Event marks	Event marks can be input during measurement (up to 100 marks) Can move to waveform before or after an event mark based on specified event number input.	
are not sufficient to power the unit when it is connected with	Continuous operating time: Approx. 3 hours with backlight on, approx. 3.5 hours with backlight off (AC adapter has priority when both are used)	Trimmen from a tim	-	
the Printer Unit MR9000. Use of	3) LR6 (AA)×8	Trigger function		
other power supplies is required. (Continuous operating time is	Approx. 40 minutes with backlight on. Approx. 50minutes with backlight off. (when used with AC adapter, AC adapter takes precedence)	Repeat recording	Single/Repeat High-speed function: Start	
given as a reference value at 23°C.)	4) 10 to 28V DC (using special order cable)	Trigger timing	Real-time function: Start, Stop, Start & Stop	
Charging functions	Charging time is about 3 hours (can be charged by connecting the AC adapter while the Z1000 battery	Trigger conditions	AND/OR supported for all trigger sources	
(reference value at 23°C) Max. rated power	pack is attached) 1) When instrument is powered with the Z1002 AC adapter or an external DC power supply: 11 VA*1, 10 VA*2, 40 VA*3 2) When instrument is powered with the Z1000 battery pack; 9 VA*1, 8 VA*2, 22 VA*3 *I Real-time data storage, backlight on *2 Real-time data storage, backlight onf *3 Real-time data storage, backlight on, with printer used	Trigger source	Trigger sources can be selected for each channel. Instrument enters free-run mode when all trigger sources are off. 1) Analog input CH1 - CH4 2) Logic input LA1 - LA4, LB1 - LB4 (4ch × 2 probes) 3) External trigger 4) Interval trigger: Fixed-time recording for specified measurement interval (month/day/hours/minutes/seconds)	
Dimensions, mass (including battery pack)	205 mm (8.07 in)W × 199 mm (7.83 in)H × 67 mm (2.64 in)D, 1.66 kg (58.6 oz) (printer detached) 303 mm (11.93 in)W × 199 mm (7.83 in)H × 67 mm (2.64 in)D,2.16 kg (76.2 oz) (printer attached)	Trigger types	2) In 3) Out 4) Voltage drop (High-speed function): For AC 50/60 Hz power lines 5) Waveform judgment (High-speed function): For AC 50/60 Hz power line 6) Logic 7) External: Rising edge/falling edge	
Accessories	Instruction manual ×1, AC adapter Z1002 ×1, Alkaline battery box ×1, Strap ×1, USB cable ×1, Application disk (Wave viewer Wv,	Level setting resolution	0.1 % f.s. (f.s.=10 div)	
Function	Communication commands table) ×1	Trigger filter	High-speed function: 7 settings from 10 to 1000 samples or OFF Real-time function: ON/OFF	
	Select from basic measurement guide, example measurement guide,	Trigger output	Open collector (5 V output, active Low)	
Presets	and commands for loading internally stored settings.	Analog input	(Accuracy defined at 23° ±5°C, 80% rh or less, for measurements taken following zero adjustment 30 minutes after instrument is turned on)	
	Select decimal or scientific notation for each channel. 1) Scaling ratio: Select scaling ratio, offset value, and units.	Measurement functions	4-channel voltage measurement; switchable between instantaneous value (waveform) and RMS value	
Scaling function	2) Two-point configuration: Set input values, post-scaling values, and units.	Input connectors	Isolated BNC connector (input impedance 1 M Ω , input capacitance 7 pF)	
	and units. 3) HIOKI sensor: Set HIOKI clamp-on probe and range value. 4) Output rate setting: Select scaled value per 1 V from a list.	Max. rated voltage to earth	600 V AC, DC CAT III / 300 V AC, DC CAT IV (with input isolated from the unit, the maximum voltage that can be applied between input channel and chassis and between input channels without damage)	
Data protection	Open files are closed before the instrument turns itself off when a power outage occurs while saving data to recording media. When powering the instrument with a battery, open files are closed and access to the media is stopped when remaining battery power falls below a	Measurement range	10 mV to 100 V/div, 13 ranges, full scale: 10 div, AC voltage that ca be measured and displayed using high-speed function: 600 Vrms Low-pass filter: 5 Hz/50 Hz/500 Hz/5 kHz/50 kHz	
	certain level. *Valid when at least 3 minutes has elapsed since the instrument was turned on.	Measurement resolu- tion	1/640 of measurement range (using 14-bit A/D conversion, at × 1)	
Reservation function	Up to 10 measurement start and measurement stop conditions can be set.	Highest sampling rate	1 MS/s (simultaneous sampling in 4 channels)	
Other	Settings can be automatically loaded from internal memory or media when the instrument is turned on. Up to 10 settings can be saved in the instrument's internal memory.	Instantaneous value measurement accuracy	±0.5% f.s. (after zero-adjust) RMS accuracy: ±1.5% f.s. (30Hz to 1kHz) ±3% f.s. (1kHz to 10kHz)	
		RMS measurement	Response time: 300ms (rising edge 0 to 90% of full scale with filter off)	
	Unit MR9000 docks onto the main device)	Eroguenov charas	Crest factor: 2	
Features	Printer paper one-touch loading, high-speed thermal printing 112 mm (4.4 in) × 18 m (59.06 ft), thermal paper roll (using 9234)	Frequency charac- teristics	DC to 100 kHz ±3dB	
Printer paper	Recording width: 100 mm, 10 div f.s., 1 div=10 mm (80 dot/div)	Input coupling	DC/GND	
Recording speed	Max. 10 mm/s (0.39 inch/s)	Max. rated voltage	600 V AC, DC (maximum voltage which when applied to between input	
	(Printing is not supported when using alkaline batteries.)	between terminals	terminals does not damage them)	

Screen display	
Display	5.7-inch VGA-TFT color LCD (640 × 480dot)
Waveform display scale	Time axis: \times 10 to \times 2 (zoom view supported for high-speed recording only), \times 1, \times 1/2 to \times 1/2,000 Voltage axis: \times 20 to \times 2, \times 1, \times 1/2 to \times 1/10
Comment input	Titles and comments input for individual channels
Logic waveform dis- play	Select 2 recording widths; display positions can be set separately
Display items	Waveform display; simultaneous display of waveform and gage; simultaneous display of waveform, gage, and settings; simultaneous display of waveform and calculation results; simultaneous display of waveform and cursor values (A/B cursor values) The following display items are supported when using real-time functionality:
Monitor function	Value (instantaneous value or RMS value) and measured waveform (monitor screen display with refresh rate of 0.5 sec) Display digits: 5
Instantaneous value display	Time: Display of time elapsed since start of measurement or trigger point Date: Display of date and time at which data was captured Number of data points: Display of number of data points captured since start of measurement
Other display functions	Cursor measurement (two cursors [A/B], support for all channels) Upper and lower limits can be set (to align waveform amplitude with upper and lower limits). The zero position of the analog waveform can be moved in 1% steps. The waveform display can be set to any of 24 colors. Zero adjustment can be performed for all channels and ranges at once.

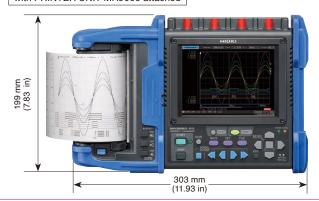
■ PC Software Specifications Bundled with the MR8880 in the CD-R

Wave Viewer [Wv] Software - Simple display of waveform file - Text conversion: convert binary data file to text format, with selectable space or tab separators in addition to CSV, and specifiable section, thinning available - Display format settings: scroll functions, enlarge/reduce display, display channel settings - Others: voltage value trace function, jump to cursor/trigger position function Operating environment - Windows 10/8/7 (32/64-bit)	Building with the Micosov in the CD-R		
Functions • Text conversion: convert binary data file to text format, with selectable space or tab separators in addition to CSV, and specifiable section, thinning available • Display format settings: scroll functions, enlarge/reduce display, display channel settings • Others: voltage value trace function, jump to cursor/trigger position function	Wave Viewer (Wv) Software		
Operating environment Windows 10/8/7 (32/64-bit)	Functions	Text conversion: convert binary data file to text format, with selectable space or tab separators in addition to CSV, and specifiable section, thinning available Display format settings: scroll functions, enlarge/reduce display, display channel settings Others: voltage value trace function, jump to cursor/trigger position	
	Operating environment	Windows 10/8/7 (32/64-bit)	

■ Appearance and Dimensions



with PRINTER UNIT MR9000 attached



■ Specifications of Options (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.



100		
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: $1 M\Omega \ (\text{with digital input}, \ 0 \ t - 5 \ V) \\ 500 k\Omega \ \text{or more} \ (\text{with digital input}, \ t - 5 \ t - 50 \ V) \\ Pull-up \ resistance: 2 k\Omega \ (\text{contact input}: \ \text{internally pulled up to} + 5 \ V)$	
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: 70	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)			
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	$\pm 1~\%$ f.s. (30 Hz to less than 1 kHz, sine wave), $\pm 3~\%$ 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		

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.



LOGIC PROBE MR9321-01

Function	Detection of AC or DC relay drive signal for High/Low state recording Can also be used for power line interruption detection
Input	4 channels (isolated between unit and channels), $HIGH/LOW$ range switching Input resistance: $100~k\Omega$ or higher (HIGH range), $30~k\Omega$ or higher (LOW range)
Output (H) detection	170 to 250 V AC, ±DC 70 to 250 V (HIGH range) 60 to 150 V AC, ±DC 20 to 150 V (LOW range)
Output (L) detection	0 to 30 V AC, ±DC 0 to 43 V (HIGH range) 0 to 10 V AC, ±DC 0 to 15 V (LOW range)
Response time	Rising edge 1 ms max., falling edge 3 ms max. (with HIGH range at 200 V DC, LOW range at 100 V DC)
Max. allowable input	250 Vrms (HIGH range), 150 Vrms (LOW range) (the maximum voltage that can be applied across input pins without damage)

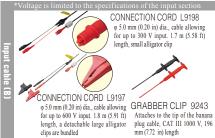
WAVE PROCESSOR 9335



WAVE PROCESSOR 9335		
Distribution media	One CD-R	
Operating environment	Computer running under Windows 10/8/7 (32/64-bit)	
Display functions	Waveform display, X-Y display, Digital value display, Cursor function, Scroll function, Maximum number of channels (32 channels analog, 32 channels logic), Gauge display (time, voltage axes), Graphical display	
File loading	Readable data formats (MEM, REC, RMS, POW), Maximum loadable file size: Maximum file size that can be saved by a given device (file size may be limited depending on the computer configuration)	
Data conversion	Conversion to CSV format, Tab delimited, Space delimited, Data culling (simple), Convert for specified channel, Batch conversion of multiple files	
Print functions	Printing image file output (expanded META type, ":EMF"), Supported printer: usable on any printer supported by operating system Print formatting: (1 up, 2-to-16 up, 2-to-16 rows, X-Y 1-to-4 up, preview, hard copy)	
Other	Parameter calculation, Search, Clipboard copy, Launching of other applications	

MR8880 Options in Detail









(2) USB(A)- Micro B cable









Model: MEMORY HiCORDER MR8880

Model No. (Order Code) (Note)

MR8880-20 (4ch, printer unit option)

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



PRINTER UNIT MR9000

Printing width 100 mm (3.94 in), used together with the MR8880-20 main body, includes 1 roll of recording paper

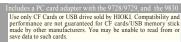


RECORDING PAPER 9234

112 mm (4.41 in) × 18 m (59.06 ft), roll type, 10 rolls/set



MR8880 + MR9000





PC CARD 2G 9830 2 GB capacity

PC CARD 1G 9729 1 GB capacity

PC CARD 512M 9728 512 MB capacity

USB DRIVE Z4006 16 GB, Long-life, High-reliability SLC Flash Memory



AC ADAPTER Z1002 For main unit. 100 to 240 V

BATTERY PACK Z1000 NiMH, Charges while installed in the main unit

POWER SUPPLY for Current Sensors SENSOR UNIT CT9555 1ch, with Waveform output

CONNECTION CORD L9217 Cord has insulated BNC connectors at both ends. 1.6 m (5.25 ft) length

PL23 (10-pin) - ME15W (12-pin) conversion

CONVERSION CABLE CT9900 Convert PL23 (10-pin) terminal to ME15W (12-pin) terminal

Up to 1000 A (High precision) *ME15W (12-pin) terminal type nrecision pull-through type, monitor the waveforms of DC to distorted AC current AC/DC CURRENT SENSOR CT6875, 2 MHz band width, 500A

Monitor the waveforms of DC to distorted AC current AC/DC CURRENT PROBE CT6844-05, 200 kHz band width, 500A AC/DC CURRENT PROBE CT6845-05, 100 kHz band width, 500A AC/DC CURRENT PROBE CT6846-05, 20 kHz band width, 1000A

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

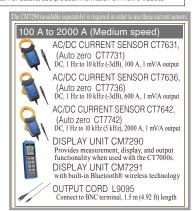
Connecting to the MR880/MR8875/MR8870

• High-precision current sensor (ME15W) + CT9955 + BNC cable > MR8880

• High-precision current sensor (PL23) + CT9900 + CT9555 + BNC cable > MR8880

Other current sensor types

The MR8880 can be used with various types of current sensors and probes. For details, see product information on Hioki's website.







Good phase characteristics, Frequency characteristics: 40 Hz to 3 kHz, 10 to 500 Å AC range, output 0.2 V AC f.s.



CLAMP ON PROBE 9132-50 Frequency characteristics: 40 Hz to 1 kHz, 20 to 1000 A AC range, output 0.2 V AC f.s.

AC FLEXIBLE CURRENT SENSOR CT9667-01/-02/-03 10 Hz to 20 kHz, 5000 A/ 500 A AC, 500 mV/f.s. output, φ 100 to 254 mm (3.94 to 10.00 in), 3 loop diameters

Leak Current *For commercial power lines, 50/60 Hz

CLAMP ON LEAK HITESTER 3283 10 mA range/10 µA resolution to 200 A range, with monitor/analog output 1 V f.s. OUTPUT CORD L9095 Connect to BNC terminal, 1.5 m (4.92 ft) length AC ADAPTER 9445-02 100 to 240 V AC

