



LR8450 series

For Hioki Memory HiCorders
and HiLoggers

Delivering Greater Flexibility to Waveform Recording

Easily Connect to Hioki Memory HiCorders and HiLoggers
for High Voltage Testing

- 1/2 the size and weight of legacy differential probe
- 1000V AC/DC (CAT III 1000V / CAT IV 600V) 1000:1, 100:1
- 3-way power supply (AC adapter, USB, external DC power supply)

**Legacy
product**

**New
product**

1/2 the size of legacy model Easily use with 3-way power supply

- The AC adapter was too large...
- The setup was a bit much just to measure 200 V AC...

- CAT III 1000V measurement with a compact probe
- Use WAVE mode to observe instantaneous waveforms
- Use AC-RMS mode to observe RMS waveforms
- Principal applications...

1. High-voltage battery circuits in vehicles such as EVs and HEVs
2. High-voltage circuits in solar power installations and other alternative energy systems
3. Commercial power circuits, for example 480 Vrms circuits
4. High-voltage surge noise from inverters, motors, and solenoids, etc.



Model : DIFFERENTIAL PROBE P9000

Model No. (Order Code) (Note)

P9000-01 (For the Memory HiCorder series, Wave only)

P9000-02 (For the Memory HiCorder series, Wave/RMS)

Connect to a Memory HiCorder's analog input terminal. Must be powered by an AC adapter, USB bus power, or other suitable power source.

- WAVE mode: Record actual waveforms using DC coupling. AC-RMS mode: RMS value of the output AC waveform
- A Female BNC/Wire Conversion Cable (special-order) option is available for connecting the probe to a data logger's terminal block.
- Use a commercially available USB cable to power the probe from a USB bus [USB (A type male) to USB (Micro B type male)]

Basic specifications (Accuracy guaranteed for 1 year)

	P9000-01	P9000-02
Measurement functions	Waveform monitor output only Frequency characteristics: DC to 100 kHz, -3 dB	Waveform monitor output/AC RMS value output (switchable) Wave mode frequency characteristics: DC to 100 kHz, -3 dB RMS mode frequency characteristics: 30 Hz to 10 kHz, response time: 300 ms (rising) or 500 ms (falling)
RMS amplitude accuracy	N/A	±1% f.s. (30 Hz to 1 kHz non-inclusive, sine wave), ±3% f.s. (1 kHz to 10 kHz, sine wave)
Division ratio	1000:1 or 100:1 (user selectable)	
DC amplitude accuracy	±0.5% f.s. (f.s. = 1.0 V; voltage division ratio: 1000:1) (f.s. = 3.5 V; voltage division ratio: 100:1)	
Input resistance, capacity	Between H and L: 10.5 MΩ, 5 pF or less (at 100 kHz)	
Max. allowable input	1000 V AC/DC	
Max. rated voltage to earth	1000 V AC/DC (CAT III)	
Operating temperature	-20 °C (-4 °F) to 50 °C (122 °F)	
Power supply	(1) AC Adapter Z1008 (100 to 240 V AC, 50/60 Hz), 6 VA (including AC adapter) or 0.9 VA (probe only) (2) USB bus power (5 V DC, USB Micro-B receptacle), 0.8 VA (3) External power supply (2.7 V to 15 V DC)	
Dimensions and mass	128 mm (5.04 in)W × 36 mm (1.42 in)H × 22 mm (0.87 in)D, 170 g (6.0 oz)	
Cord length	Input: 70 cm (2.30 ft) ; output: 1.5 m (4.92 ft)	
Included accessories	Alligator clips (L4935) ×2, Carrying case ×1, Instruction manual ×1	

Options

Power supplies

AC ADAPTER Z1008
100 to 240 V AC

Input cables

Test Pin Set L4932 is required when using the Small Alligator Clip Set L4934.

EXTENSION CABLE SET L4931
Expands the length of the cable with banana plug, 1.5 m (4.92 ft) length

TEST PIN SET L4932
Attaches to the tip of the banana plug cable, CAT IV 600V, CAT III 1000V

SMALL ALLIGATOR CLIP SET L4934
Attaches to the tip of the L4932, L9207-10/DT4911, L9206, CAT III 300V, CAT II 600V

ALLIGATOR CLIP SET L4935
Attaches to the tip of the banana plug cable, CAT IV 600V, CAT III 1000V

BUS BAR CLIP SET L4936
Attaches to the tip of the banana plug cable, CAT III 600V

MAGNETIC ADAPTER SET L4937
Attaches to the tip of the banana plug cable, CAT III 1000V

TEST PIN SET L4938
Attaches to the tip of the banana plug cable, CAT III 600V

BREAKER PIN SET L4939
Attaches to the tip of the banana plug cable, CAT III 600V

GRABBER CLIP L9243
Attaches to the tip of the banana plug cable, CAT II 1000 V, 185 mm (7.28 in) length

Output cables

CONVERSION CABLE L1011
30 cm (0.98 ft) length, covert BNC to wire

CONVERSION CABLE L1011-10
2.4 m (7.87 ft) length, covert BNC to wire

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