



# 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 Model 9322
- 1000V AC/DC (CAT III 1000V / CAT IV 600V) 1000:1, 100:1
- Wide operating temperature range of -40°C to 80°C
- 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. Power can also be supplied from a Memory HiCorder's logic terminal.
- Use a commercially available USB cable to power the probe from a USB bus [USB (A type male) to USB (Micro B type male)]
- Hioki can also provide a three-branch cable that splits power from an AC adapter or USB cable on a special-order basis. Please contact your Hioki distributor for more information.

### Basic specifications (Accuracy guaranteed for 1 year, Post-adjustment 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	-40 °C (-40 °F) to 80 °C (176 °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)	
Accessories	Instruction manual ×1, alligator clips ×2, carrying case ×1	

## Options

**Power supplies**

**AC ADAPTER Z1008**  
100 to 240 V AC

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

**Input cables**

**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 9243**  
Attaches to the tip of the banana plug cable, CAT III 1000 V, 196 mm (7.72 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

**Special order cables**

Please contact your local HIOKI distributor

**USB Bus Power Cable**  
Supplies power from a USB Standard Type A receptacle

**USB A/Micro-B Cable**  
Supplies power from a USB Standard Type A receptacle via a USB Micro-B plug

**Three-branch Cable**  
Splits AC adapter output into three separate plugs

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**HIOKI**  
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