




DIFFERENTIAL PROBE P9000

Recorders 



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

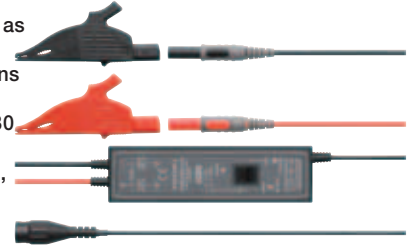
New product

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...

- CATIII 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.



Basic specifications (Accuracy guaranteed for 1 year)

	P9000-01	P9000-02
Measurement functions	WAVE mode only: waveform monitor output	(selectable) WAVE mode: waveform monitor output, AC-RMS mode: RMS value of the output AC waveform
Frequency characteristics	DC to 100 kHz -3 dB	WAVE mode: DC to 100 kHz -3 dB AC-RMS mode: 30 Hz to 10 kHz, Response time: rising 300 ms, falling 600 ms
Output accuracy	DC output: $\pm 0.5\%$ f.s. (f.s. = 1.0 V at 1000:1), (f.s. = 3.5 V at 100:1)	DC output: $\pm 0.5\%$ f.s. (f.s. = 1.0 V at 1000:1), (f.s. = 3.5 V at 100:1) Effective value: $\pm 1\%$ f.s. (30 Hz to 1 kHz, sine wave), $\pm 3\%$ f.s. (1 kHz to 10 kHz, sine wave)
Voltage division ratio	1000 : 1, 100 : 1 (selectable)	
Input resistance / capacitance	Between H and L: 10.5 M Ω , 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 and humidity range	Temperature: -40 °C (-40 °F) to 80 °C (176 °F) Humidity: -40 to less than 40°C: 80% rh or less (no condensation) 40°C to less than 45°C: 60% rh or less (no condensation), 45°C to 80°C: 50% rh or less (no condensation)	
Power supply	(1) AC Adapter Z1008 (100 to 240 VAC, 50/60 Hz), 6 VA (including AC adapter), 0.9 VA (probe only), (2) USB bus power (5 VDC, USB Micro B receptacle), 0.8 VA, (3) External power: 2.7 V to 15 VDC, 1 VA	
Dimensions and mass	128 mm (5.04 in)W \times 36 mm (1.42 in)H \times 22 mm (0.87 in)D, 170 g (6.0 oz)	
Cord length	Input side: 70 cm (2.30 ft), Output side: 1.5 m (4.92 ft)	
Accessories	Instruction manual \times 1, Alligator clips \times 2, Carrying case \times 1	

- 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.

Order Code: P9000-01 (Wave mode only, input up to 1 kV AC/DC)
P9000-02 (Select between WAVE/RMS mode, input up to 1 kV AC/DC)

Note: This product is used by connecting it to the analog inputs on a Memory HiCorder. It requires an AC adapter, USB bus power, or other power supply to operate.

Power supplies

AC ADAPTER Z1008
100 to 240 V AC

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

Female BNC/Wire Conversion Cable
Splits a male BNC terminal into bare wires for connection to a screw terminal block

Input cable options

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

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HIOKI

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