

NON-CONTACT AC VOLTAGE PROBE SP3000



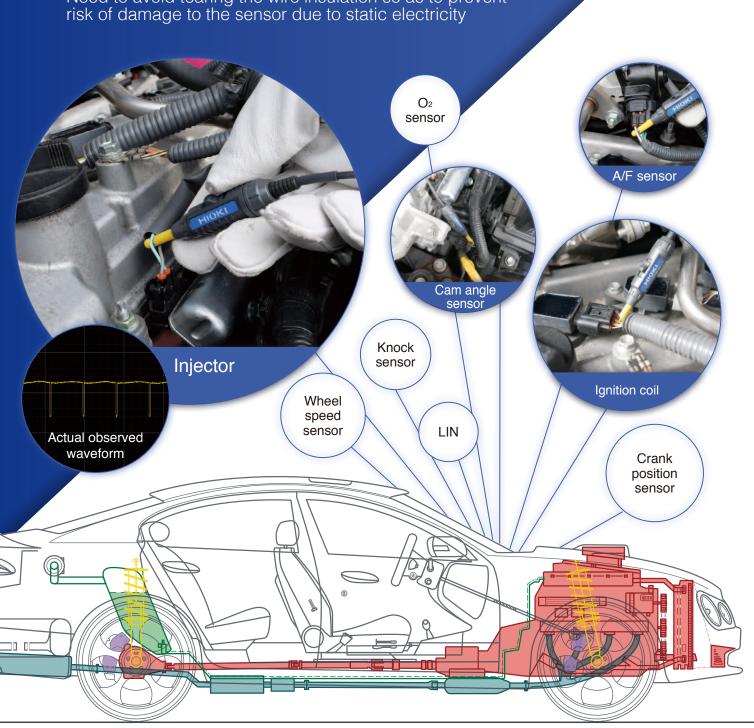
Capture Voltage Signals from Outside the Wire Cover

The world's first non-contact probe transforms the conventional approach to electric equipment maintenance.



Do you have trouble capturing signals from electric equipment and communication lines because of these issues?

- The miniaturization of devices and use of waterproof connectors makes it impossible to establish contact with metal terminals
- Connectors can't be removed because it will reduce the ability to reproduce the phenomena
- Need to avoid tearing the wire insulation so as to prevent risk of damage to the sensor due to static electricity



Dramatically reduce work time by using the SP3000 with an oscilloscope to observe waveforms

Visualize signals from electric equipment simply by applying the probe to the wire's insulation



Measure insulated wires with outside diameters ranging from 1 mm to 2.5 mm

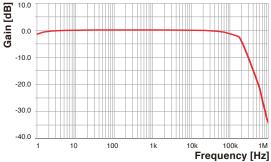
10 Hz to 100 kHz frequency band

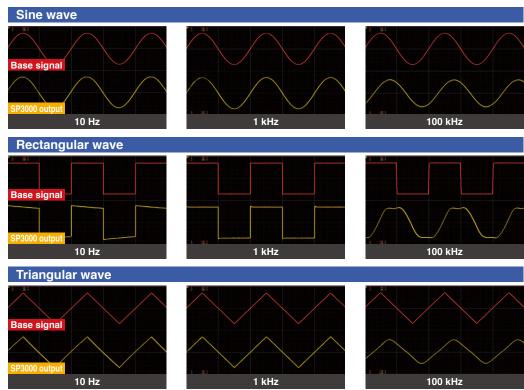
5 Vrms 14 Vp-p rated measurement voltage

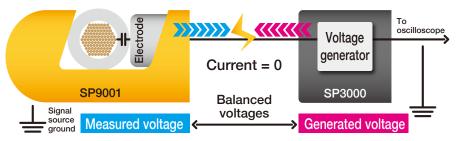
- Cannot be used to measure DC signals from batteries, etc.
- *Cannot be used to measure uninsulated conductors.

Excellent Characteristics

Delivers stable frequency characteristics across a broad band so that you can observe everything from mechanical response signals to communications signals.







The hook on the tip of the probe contains an electrode for establishing capacitive coupling with the cable being measured, causing a minuscule current to flow if there is a potential difference between the cable and the electrode. By detecting this minuscule current and generating a voltage so as to eliminate it, the SP3000 can accurately observe a variety of waveforms.

Specifications

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

AC VOLTAGE PROBE SP9001

d (0.039 in to 0.098 in) ed current cancelation se with bare conductors) se cycles less cor less (W) × 13.9 mm (0.55 in) (H) × 77.4 mm 52 g (1.83 oz) (including cable)
se with bare conductors) se cycles less (W) × 13.9 mm (0.55 in) (H) × 77.4 mm
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(v) × 13.9 mm (0.55 in) (H) × 77.4 mm
°C to 50°C (probe tip, -10°C to 80°C) I from -10°C to 40°C (non-condensing) C to 80°C (non-condensing)
% RH (non-condensing)
(

NON-CONTACT AC VOLTAGE PROBE SP3000	
Probe signal input terminal	BNC
Ground input terminal	Banana input
Output terminal	Insulated BNC
Rated measurement voltage	5 V rms (14.14 Vp-p)
Maximum input voltage	RMS: 30 Vrms or less Peak: 42.4 Vpeak or less

Output rate	1 V/V
Rising time	4.5 µs or less
Frequency band	10 Hz to 100 kHz (-3 dB)
Voltage measurement precision	±2.5% rdg. ±1% f.s. (0.5 Vrms to 5 Vrms)
Effects of wire under measurement	±5% rdg.
Temperature coefficient	Add 0.1% rdg. per °C within operating temperature range (at temperatures other than 23°C \pm 5°C)
Output noise	100 mV rms (reference value)
Dimensions and mass	120 mm (4.72 in) (W) \times 25 mm (0.98 in) (H) \times 55 mm (2.16 in) (D), 160 g (5.64 oz) (including cable)
Cable length	1.5 m (4.92 ft)
Operating temperature and humidity range	Temperature: -10°C to 50°C Humidity: 80% RH from -10°C to 40°C (non-condensing) 60% RH from 40°C to 50°C (non-condensing)
Storage temperature and humidity range	-20°C to 60°C, 80% RH (non-condensing)
Standard compliance	Safety: EN 61010 EMC: EN 61326
USB bus power	USB mini receptacle: 5 V ±0.25 V DC
Power Supply AC Adapter Z1013	5 V DC, 2.6 A Rated supply voltage: 100 V to 240 V AC (50 Hz/60 Hz) Anticipated transient overvoltage: 2500 V
Maximum rated power	When operating on USB bus power: 1.5 VA When using AC Adapter Z1013: 7.5 VA (including AC adapter)

NON-CONTACT AC VOLTAGE PROBE (package) Model No. (Order Code): SP3000-01



Package contents

AC VOLTAGE PROBE SP9001 NON-CONTACT AC VOLTAGE PROBE SP3000 Alligator clip Ground connection cable (1.5 m)(4.92 ft) USB cable (1.5 m)(4.92 ft) User manual

Options



Non-contact AC Voltage Probe SP3000

Accessories

Alligator clip, ground connection cable (1.5 m) (4.92 ft), USB cable (1.5 m)(4.92 ft), user manual



AC Voltage Probe SP9001

AC Adapter Z1013



Magnetic Adapter

9804-02



Carrying Case C1011

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