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NON-CONTACT VOLTAGE PROBE
SP3000-01

NEW

Preview

Capture Voltage Signals from Outside the Wire Cover



**Revolutionizing the Way You Conduct
Maintenance on Electrical Equipment
World's First Non-Metallic
Contact Voltage Probe**

Simply attach the probe to covered wires with a diameter of ϕ 1.0 mm to ϕ 2.5 mm (0.04 in to 0.98 in) to observe waveforms on an oscilloscope.



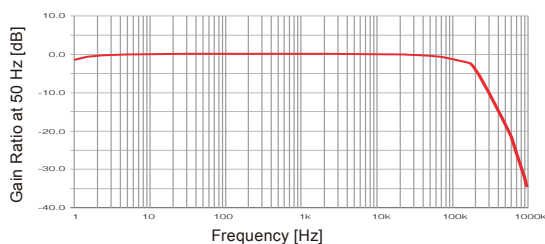
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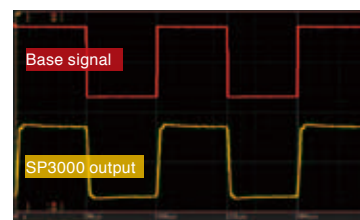
Characteristics



With this "non-contact" method, electrical signals of 1 Vp-p to 14 Vp-p are accurately reproduced in the 10 Hz to 100 kHz (-3 dB) frequency band, changing the way electrical equipment maintenance is performed.



100 Hz waveform

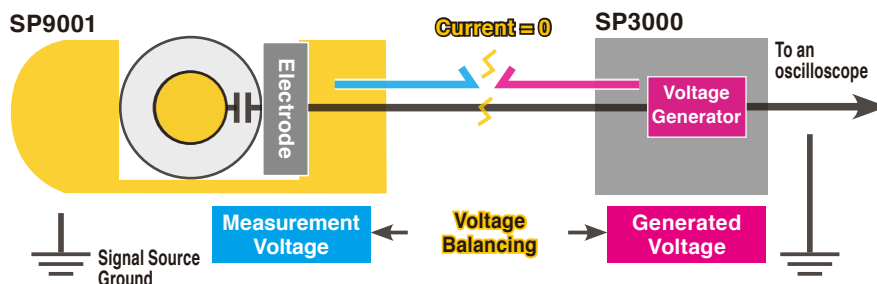


10 kHz waveform

Principle

An electrode that couples capacitively with the measured cable is located in the hook clip on the tip of the probe. A very small current is generated when there is a potential difference between the measured cable and the electrode. When this small current is detected, generating voltage that maintains a current of 0 allows you to accurately capture a variety of waveforms.

Principle of Measurement



SP3000-01 Specifications

(Accuracy guaranteed for 1 year, post-adjustment accuracy guaranteed for 1 year, for combined use with SP9001 and Z1013)

SP9001

Range of wire materials	Insulated wire
Measurable outer diameter of wires	φ 1.0 mm to φ 2.5 mm (0.04 in to 0.98 in)
Measurement method	Coupled electrostatic capacity cancellation method (cannot be used with bare conductors)
Probe open/close lifespan	10,000 times
Max. input voltage	RMS value: 30 Vrms or less Peak value: 42.4 Vpeak or less
External dimensions	15.0 mm (0.59 in) W x 13.9 mm (0.55 in) H 77.4 mm (3.05 in) D
Cord length	BNC Cable: 1.0 m (3.28 ft)

SP3000

Measurement voltage	5 Vrms 14 Vp-p
Max. input voltage	RMS value: 30 Vrms or less Peak value: 42.4 Vpeak or less
Output rates	1 V / V
Rise time	4.5 μs or less
Frequency band	10 Hz to 100 kHz (-3 dB frequency band)
Voltage measurement accuracy	± 2.5% rdg. ± 1% f.s. (0.5 Vrms to 5 Vrms)
External dimensions	120 mm (4.72 in) W x 25.0 mm (0.98 in) H 55.0 mm (2.17 in) D
Cord length	BNC Cable: 1.5 m (4.92 ft)
Operating temperature range	Temperature: -10°C to 50°C (14°F to 122°F)

NON-CONTACT AC VOLTAGE PROBE

Model No. (Order Code) : SP3000-01

Available by the end of February 2017



SP9001

Available by the end of February 2017



SP3000

Accessory: GND CONNECTION CABLE (1.5 m (4.92 ft)), ALLIGATOR CLIP, USB CABLE (1.5 m (4.92 ft)), INSTRUCTION MANUAL



Options



AC ADAPTER
Z1013

Available by the end of February 2017



CARRYING CASE
C1011

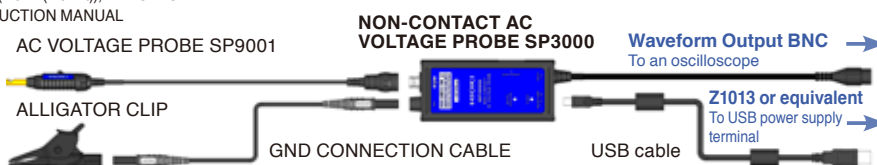
Available by the end of February 2017



MAGNETIC ADAPTER
9804-02

Attaches to the tip of cord, black x1, φ11 mm (0.43 in)

Connection Diagram



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