

NON-CONTACT AC VOLTAGE PROBE SP3000

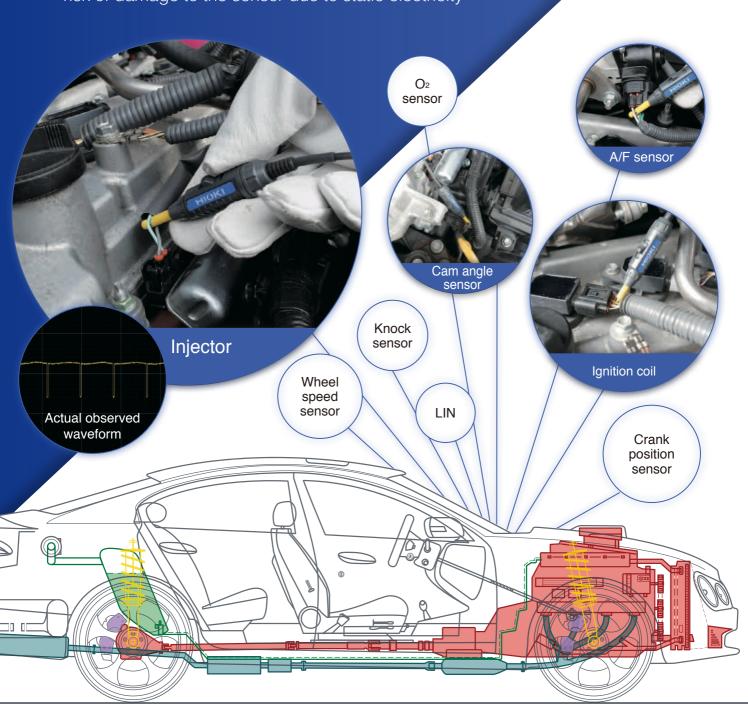


Capture Voltage Signals from Outside the Wire Cover

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

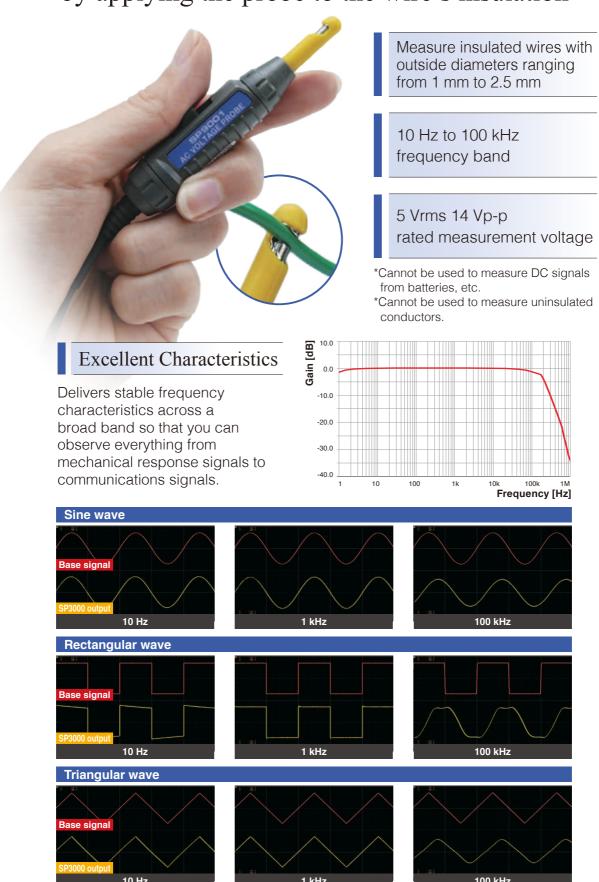
Do you have trouble capturing signals from electric equipment and communication lines because of these issues?

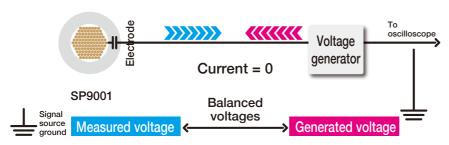
- The miniaturization of devices and use of waterproof connectors makes it impossible to establish contact with metal terminals
- Connectors can't be removed because it will reduce the ability to reproduce the phenomena
- Need to avoid tearing the wire insulation so as to prevent risk of damage to the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





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

Measurable wire type	Insulated wire	
Outside diameter of measurable wires	1.0 mm to 2.5 mm (0.039 in to 0.098 in)	
Measurement method	Capacitive-coupled current cancelation (not suitable for use with bare conductors)	
Probe service life	10,000 open / close cycles	
Maximum input voltage	RMS : 30 Vrms or less Peak : 42.4 Vpeak or less	
Dimensions and mass	15.0 mm (0.59 in) (W) \times 13.9 mm (0.55 in) (H) \times 77.4 mm (3.05 in) (D) mm, 52 g (1.83 oz) (including cable)	
Cable length	1.0 m (3.28 ft)	
Operating temperature and humidity range		
Storage temperature and humidity range	-20°C to 60°C, 80% RH (non-condensing)	
Standard compliance	Safety: EN 61010	
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 o measure	of wire under ment	±5% rdg.
Temperature coefficient		Add 0.1% rdg. per °C within operating temperature range (at temperatures other than 23°C ±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)

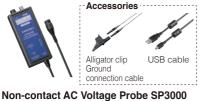
NON-CONTACT AC VOLTAGE PROBE (package) Model No. (Order Code): SP3000-01



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



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



SP9001 Z1013 9804-02

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