

Clamp Sensors (High-precision sensors to view waveforms or to use with power meters -for AC/DC, or AC only-)

## CLAMP ON SENSOR 9272-10



OVERVIEW

OPTION

### High-precision sensors to view waveforms or to use with power meters (for AC only)

The 9270/9271/9272-10 are wide frequency range clamp-on sensors, for use with HIOKI POWER HiTESTERS. Used together with the SENSOR UNIT 9555-10, these allow monitoring of current waveform, and connection to a waveform recorder or oscillograph.

### Basic specifications

<b>Rated current</b>	20 A AC, or 200 A AC (switched selectable, 400 A for 10 seconds)
<b>Frequency band width</b>	5 Hz to 10 kHz ( $\pm 2.5\%$ f.s.)
<b>Accuracy (at 45 to 66 Hz)</b>	$\pm 0.5\%$ rdg. $\pm 0.05\%$ f.s., phase $\pm 0.2^\circ$
<b>Output rate (with the 9555-10)</b>	2 V/rated current range (waveform output, with the 9555-10)
<b>Max. circuit voltage</b>	600 V AC rms (insulated wire), <b>Note:</b> The core, shield case, and electrical circuits are not insulated.
<b>Core jaw dia.</b>	$\varnothing 46$ mm(1.81 in), or 50 mm(1.97 in) $\times$ 20 mm(0.79 in) busbar
<b>Power supply</b>	SENSOR UNIT 9555-10 (required)
<b>Dimensions, mass</b>	62 mm(2.44 in)W $\times$ 174 mm(6.85 in)H $\times$ 33 mm(1.30 in)D, 420 g (14.8 oz), <b>cord length:</b> 3 m(9.84 ft)
<b>Accessories</b>	CARRYING CASE 9355 (1)

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## UNIVERSAL CLAMP 9277



OVERVIEW

OPTION

### High-precision sensors to view waveforms or to use with power meters (for AC/DC)

- 9277/9278/9279: Clamp on sensors
- Wide frequency ranges including DC
- Use together with the SENSOR UNIT 9555-10
- These allow current waveform monitoring (with a waveform recorder or oscilloscope)

### Basic specifications

<b>Rated current</b>	20 A AC/DC (continuous 50 A)
<b>Frequency band width</b>	DC to 100 kHz ( $\pm 5\%$ f.s.)
<b>Accuracy (at 45 to 66 Hz)</b>	$\pm 0.5\%$ rdg. $\pm 0.05\%$ f.s., phase $\pm 0.2^\circ$
<b>Output rate (with the 9555)</b>	2 V/rated current range (waveform output, with the 9555)
<b>Max. circuit voltage</b>	600 V peak (insulated wire), <b>Note:</b> The core, shield case, and electrical circuits are not insulated.
<b>Core jaw dia.</b>	$\varnothing 20$ mm(0.79 in)
<b>Power supply</b>	SENSOR UNIT 9555-10 (required)
<b>Dimensions, mass</b>	176 mm(6.93 in)W x 63 mm(2.48 in)H x 34 mm(1.34 in)D, 430 g (15.2 oz), <b>cord length:</b> 3 m(9.84 ft)
<b>Accessories</b>	CARRYING CASE 9375 (1)

OVERVIEW

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Clamp Sensors (High-precision sensors to view waveforms or to use with power meters -for AC/DC, or AC only-)

## UNIVERSAL CLAMP 9278



OVERVIEW

OPTION

### High-precision sensors to view waveforms or to use with power meters (for AC/DC)

- 9277/9278/9279: Clamp on sensors
- Wide frequency ranges including DC
- Use together with the SENSOR UNIT 9555-10
- These allow current waveform monitoring (with a waveform recorder or oscilloscope)

### Basic specifications

<b>Rated current</b>	200 A AC/DC (continuous 350 A)
<b>Frequency band width</b>	DC to 100 kHz ( $\pm 5\%$ f.s.)
<b>Accuracy (at 45 to 66 Hz)</b>	$\pm 0.5\%$ rdg. $\pm 0.05\%$ f.s., phase $\pm 0.2^\circ$
<b>Output rate (with the 9555-10)</b>	2 V/rated current range (waveform output, with the 9555-10)
<b>Max. circuit voltage</b>	600 V peak (insulated wire), <b>Note:</b> The core, shield case, and electrical circuits are not insulated.
<b>Core jaw dia.</b>	$\varnothing 20$ mm(0.79 in)
<b>Power supply</b>	SENSOR UNIT 9555-10 (required)
<b>Dimensions, mass</b>	176 mm(6.93 in)W x 63 mm(2.48 in)H x 34 mm(1.34 in)D, 430 g (15.2 oz), <b>cord length:</b> 3 m(9.84 ft)
<b>Accessories</b>	CARRYING CASE 9375 (1)

OVERVIEW

OPTION

Clamp Sensors (High-precision sensors to view waveforms or to use with power meters -for AC/DC, or AC only-)

## AC/DC CURRENT SENSOR 9709



OVERVIEW

OPTION

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### High-precision sensors to view waveforms or to use with power meters (for AC/DC)

- Super high precision:  $\pm 0.05\%$  rdg.  $\pm 0.01\%$  f.s.
- Excellent characteristics: Conductor position/external magnetic field/magnetization effect
- CAT III 1000 V Safety
- Convenient voltage output design

### Basic specifications

<b>Rated current</b>	500A AC/DC (continuous 700A)
<b>Frequency band width</b>	DC to 100 kHz
<b>Accuracy (at 45 to 66 Hz)</b>	$\pm 0.05\%$ rdg. $\pm 0.01\%$ f.s., phase $\pm 0.2^\circ$
<b>Output rate (with the 9555)</b>	2 V/rated current range (waveform output, with the 9555)
<b>Max. circuit voltage</b>	1000 V AC/DC, Note:The core, shield case, and electrical circuits are not insulated.
<b>Core jaw dia.</b>	$\varnothing 36$ mm(1.42 in)
<b>Power supply</b>	SENSOR UNIT 9555 (required)
<b>Dimensions, mass</b>	160 mm(6.30 in)W x 112 mm(4.41 in)H x 50 mm(1.97 in)D, 850 g (30.0 oz), cord length: 3 m(9.84 ft)

OVERVIEW

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## SENSOR UNIT 9555-10



### OVERVIEW

Power supply for the CLAMP ON SENSOR 9270/9271/9272/9272-10, and UNIVERSAL CLAMP ON CT 9277/9278/9278 and AC/DC Current Sensor 9709

### Basic specifications

<b>Compatible models</b>	9270/9271/9272/9272-10/9277/9278/9279/9709, 1 unit max.
<b>Output Terminal</b>	BNC Terminal (outputs the power output of the connected sensor)
<b>Output power voltage</b>	$\pm 12V \pm 0.5V$
<b>Power supply</b>	to main device +10V to +30V (+12V provided from supplied AC Adapter)
<b>Dimensions, mass</b>	40W x 70H x 130Dmm, 500g
<b>Accessories</b>	AC Adapter 9418-50 (AC 100 to 240V) (1)

### OVERVIEW