

NEW

















## Essential equipment for professional electricians: Measure current and voltage with a single instrument!











# Specifications Basic accuracy figures for measurement ranges are indicated in parentheses. Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year, Product warranty period is 3 years.

	3280-10F	3280-20F		
AC measurement method	MEAN value	True RMS		
Core jaw diameter	ф33 mm (1.30"), jaw thickness: 9.5 mm (0.37")			
Max. rated voltage to earth	Jaw: CAT IV 300 V, CAT III 600 V Voltage measurement terminal: CAT III 300 V, CAT II 600 V			
AC Current	42.00 A/ 420.0 A/ 1000 A (±1.5% rdg.±5 dgt.)			
Frequency characteristics	50 to 60 Hz	40 Hz to 1 kHz		
AC Voltage	4.200 V to 600 V, 4 ranges (±1.8% rdg.±7 dgt.)			
Frequency characteristics	45 Hz to 500 Hz			
DC Voltage	420.0 mV to 600 V, 5 ranges (±1.0% rdg.±3 dgt.)			
Resistance	420.0 Ω to 42.00 MΩ, 6 ranges (±2.0% rdg.±4 dgt.)			
Continuity Check	420.0 $\Omega$ (±2.0% rdg.±4 dgt.) Threshold of buzzer sound 50 $\Omega$ ±40 $\Omega$ or less			
Crest factor	-	2.5 or less (1.5 or less at 4200 counts)		
Display refresh rate	400 ms			

-25°C to 65°C (-13°F to 149°F), 80% RH or less (no condensation)			
-25°C to 65°C (-13°F to 149°F), 80% RH or less (no condensation)			
1 m onto concrete			
IP40			
Safety : EN 61010, EMC : EN 61326			
Data hold, Auto power-saving function			
Coin type lithium battery CR2032×1			
120 hours	70 hours		
57W×175H×16D mm (2.24"W × 6.89"H × 0.63"D), 100 g (3.5 oz.)			
	80% RH or less (no condensa 1 m onto concrete IP40 Safety: EN 61010, EMC: EN Data hold, Auto power-saving Coin type lithium battery CR20 120 hours		

### AC FLEXIBLE CURRENT SENSOR CT6280 specifications φ130 mm (5.12") (Cable cross-section diameter: 5 mm (0.20"); tip Core jaw diameter cap diameter: 7 mm (0.28")) **AC Current** 420.0 A/ 4200 A (±3.0% rdg.±5 dgt.) 40 Hz to 1 kHz Cable length 800 mm (31.5")

### Lineup

	AC CLAMP METER 3280-10F	AC CLAMP METER 3280-20F	AC CLAMP METER SET 3280-70F	AC CLAMP METER SET 3280-90F
AC measurement method	MEAN value	True RMS	MEAN value	True RMS
Order code	3280-10F	3280-20F	3280-70F	3280-90F
Includes	3280-10F CARRYING CASE 9398 TEST LEAD L9208 Coin type lithium battery CR2032 Instruction Manual	3280-20F CARRYING CASE 9398 TEST LEAD L9208 Coin type lithium battery CR2032 Instruction Manual	CARRYING CASE C0205 TEST LEAD L9208	3280-20F AC FLEXIBLE CURRENT SENSOR CT6280 CARRYING CASE C0205 TEST LEAD L9208 Coin type lithium battery CR2032 Instruction Manual
Image				

### Options

CARRYING CASE 9398 (bundled with the 3280-10F/ 3280-20F)

AC FLEXIBLE CURRENT SENSOR CT6280

(includes C0205, attachment)

CARRYING CASE C0205 (bundled with the 3280-70F/ 3280-90F/ CT6280; fits CT6280, 3280-10F/ 3280-20F, and test leads) TEST LEAD L9208 (bundled Accessory) **TEST LEADS HOLDER 9209 CONTACT PIN SET L4933\*** SMALL ALLIGATOR CLIP SET L4934\*





\*Probe tips can be used on TEST LEAD L9208.

What is the difference between the Mean method and True RMS method? There are two methods for converting current into RMS values: the mean method (mean rectification and the true RMS method (true RMS value indication). Although both methods yield the same value for undistorted sine waves, distortion of the waveform causes the values to diverge.

## **MEAN** method (MEAN value)

The input waveform is treated as an undistorted sine wave (single frequency only). The AC signal mean is calculated, converted to an RMS value, and displayed. rement error increases when the waveform is distorted.

### True RMS method (True RMS)

The waveform including harmonic calculation formula and displayed. onic components is calculated according to an RMS

True RMS measurement yields accurate display values even when measuring a distorted waveform, for example from an inverter-equipped device or switch-

■ Comparing distorted current values from an inverter, etc.

3 16 A Current waveform from an

(3280-10F)



True RMS method (3280-20F)

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All information correct as of Jan. 13, 2016. All specifications are subject to change without notice.

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