

AC CLAMP METER 3280-10F, 3280-20F

Test Equipment Depot 1-800-517-8431

99 Washington Street Melrose, MA 02176 Phone 781-665-1400 Toll Free 1-800-517-8431

Visit us at www.TestEquipmentDepot.com





















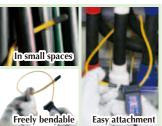
Essential equipment for professional electricians: Measure current and voltage with a single instrument!











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.) 420.0 Ω to 42.00 MΩ, 6 ranges (±2.0% rdg,±4 dgt.) | | |
| Resistance | | | |
| Continuity Check | 420.0 Ω (±2.0% rdg.±4 dgt.) Threshold of buzzer sound 50 Ω ±40 Ω or less | | |
| Crest factor | - | 2.5 or less (1.5 or less at 4200 counts) | |
| Display refresh rate | 400 ms | | |

| Operating temperature and humidity | -25°C to 65°C (-13°F to 149°F), 80% RH or less (no condensation) | | |
|------------------------------------|--|----------|--|
| Storage temperature and humidity | -25°C to 65°C (-13°F to 149°F), 80% RH or less (no condensation) | | |
| Drop-proof distance | 1 m onto concrete | | |
| Dustproof and waterproof | IP40 | | |
| Standards | Safety : EN 61010, EMC : EN 61326 Data hold, Auto power-saving function Coin type lithium battery CR2032×1 | | |
| Functions | | | |
| Power supply | | | |
| Continuous use | 120 hours | 70 hours | |
| Dimensions and mass | 57W×175H×16D mm (2.24"W × 6.89"H × 0.63"D), 100 g (3.5 oz.) | | |

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 | 3280-10F AC FLEXIBLE CURRENT SENSOR CT6280 CARRYING CASE C0205 TEST LEAD L9208 Coin type lithium battery CR2032 Instruction Manual | 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. 16 A

In fact, this much current s flowing! True RMS method (3280-20F)

Current waveform from an

(3280-10F)

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.



Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 TestEquipmentDepot.com