AC CLAMP POWER METER CM3286-50



Accurately detect electricity theft

- The CM3286 is ideal for verifying electricity theft since it can measure both AC power and current.
- The instrument's electricity theft detection-and-report function can be used to quickly and easily make measurements and generate reports.







Quick and easy data recording using Bluetooth[®] communication with the Z3210



When you freeze the measured value, it is automatically transferred to a smartphone or tablet, eliminating the need to jot down readings by hand. You can also create a simple PDF report right there in the field, and save data in CSV format for later editing in Excel.



Electricity theft detection-and-report function

Simply follow the measurement procedure to take measurements and photographs at four locations and the instrument will automatically generate a report, complete with photos.

Since the report is generated automatically in the field based on captured measurement data, it's impossible for others to alter the data.



Delivering a broad range of measurements at sites from manufacturing plants to households

- · Accurately measure power from 5 W at a current as low as 60 mA to 360 kW at a maximum of 600 A (single-phase power measurement).
- · In addition to current, voltage, and power, measure simple integral power consumption and phase sequence.
- Obtain accurate readings with true RMS measurement.

Measurement line

Measure power in single-phase to balanced three-phase circuits (with estimated values) 1-phase/ 2-wire 1-phase/ 3-wire balanced 3-phase/3-wire balanced 3-phase/4-wire

*The instrument generates estimated power values when measuring 3-phase circuits





All related parameters are shown on a single screen



Simple wiring guide

The CM3286 provides a simple on-screen quide indicating how to connect it to a 3-phase circuit.

Example: 3-phase AC measurement (3P3W, balanced)



Quickly check for unbalance

The CM3286 can measure unbalanced power in a

3-phase/ 3-wire circuit by measuring the single-phase

power twice and then automatically adding the re-

sults. (The instrument can also measure 3-phase/4-

RANGE: MANUA

3.286_{kw}

<u>1789, 149</u>7,

3P3W UNBALANCED

wire circuits in three separate measurements.)

📆 First measurement

Second

measurement

RANGE:

348

1789

1497

346.4 • 4.990 .

AUTO HOLD

The clamp meters beep when the measured value stabilizes and then automatically hold the display value. This is useful when using the instrument in locations where it is difficult to see the display or press the hold button



Double warnings with sound and light

When the clamp power meter detects excessively over current or voltage input during a continuity check, it alerts you with a red backlight and beep ing tone in order to help prevent accidents.

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Easily check power supply fluctuations

Since it can display maximum (MAX), minimum (MIN), and average (AVG) values, the CM3286 is useful when you need to ascertain the magnitude of fluctuations.

And since it can also measure crest (PEAK) values, you can use it to check fluctuations at the crest value level



CAT IV 600 V

The CM3286 can safely measure service wires with a wire-to-ground voltage of up to 600 V as well as wires found in distribution panels.

The clamp meters also feature a safe design that can withstand a transient overvoltage of 8 kV in case of a lightning strike.



App Store

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-ADS

GENNECT Cross (freeware) is required to use instruments with a smartphone or tablet. GENNECT Cross available from the Google Play or Apple Store.



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Measurement line	Single-phase, Three-phase (should be balanced with no distortion)	Bluetooth®	Available
Measurement items	Voltage, Current, Voltage/ current peak, Active/ reactive/ ap- parent power, Power factor, Phase angle*1, Frequency, Simple Active Energy Consumption (Single-phase),	communication Standards	When WIRELESS ADAPTER Z3210 (Option) is attached Safety: EN61010, EMC: EN61326
		Power supply	LR03 Alkaline battery ×2
AC voltage	Voltage/ current harmonic levels [Measurement range] 80.0 V to 600.0 V, Single range, Basic accuracy 45 Hz - 66 Hz: ±0.7% rdg. ±3 dgt. (Frequency characteristics: 45 Hz to 1 kHz, True RMS)		Approx. 25 hours (Backlight OFF, Bluetooth® OFF) Approx. 18 hours (Backlight OFF, Bluetooth® ON)
			φ 46 mm (1.81 in)
AC current	[Measurement range] 0.060 A to 600.0 A, 3 range, Basic accuracy 45 Hz - 66 Hz: ±1.3% rdg. ±3 dgt. (Frequency characteristics: 45 Hz to 1 kHz, True RMS)	Dimensions and Mass	65 mm (2.56in) W × 241 mm (9.49in) H × 35 mm (1.38in) D, 450 g (15.9 oz)
			e angle obtained from zero cross of current / voltage.
Power	[Single phase] 0.005 kW to 360.0 kW Basic accuracy: ±2.0% rdg. ±7 dgt. (50/ 60 Hz, Power factor=1) [Balanced three-phase 3-wire] 0.020 kW to 623.5 kW Basic accuracy: ±3.0% rdg. ±10 dgt. (50/ 60 Hz, Power factor=1) [Balanced three-phase 4-wire] 0.040 kW to 1080 kW Basic accuracy: ±2.0% rdg. ±3 dgt. (50/ 60 Hz, Power factor=1)	*2) Harmonic can be displayed by dedicated application software (Gennect Cross). WRELESS ADAPTER 32310 (Optimol) is required *3) While in storage, or when measuring an insulated conductor. Do not use when wet. *The indicated value for three-phase power is based on the assumption of a balanced condition and sine wave without distortion at 50% IE. Accurate measurement is not possible on an unbalanced or inverter controlled three-phase line. Also, if the phase (erro cross) cannot be detected due to significant waveform distortion, it cannot be measured nor displayed.	
Harmonic*2	Voltage/ current harmonic levels up to 30th, Content factor, Total harmonic distortion ratio		
Other functions	[Phase angle *1] lead -180.0° to lag 179.9°, [Power factor] -1.000 to 1.000 [Frequency] 45.0 Hz to 999.9 Hz, PEAK, phase detection, max/min/avg value display, auto hold, electric meter comparison, unbalanced 3-phase power estimate display, etc.		
Maximum rated voltage to earth Maximum rated voltage to terminal	600 V AC (Measurement category IV) 1000 V AC (Measurement category III)		
Crest factor	6 A/ 60 A range 3 or less, 600 A/ 600 V range 1.6 or less		
Operating and storage temperature and humidity ranges	-25°C to 65°C or less (-13.0°F to 149.0°F) 80% RH or less (no condensation, less than 40°C)		

Order code/ Options

Grip: IP50

Dustproof and

waterproof*3



	information	
All informat	ion correct as of Mar. 31, 2022.	All specifications are subject to change without notice.

regional contact

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