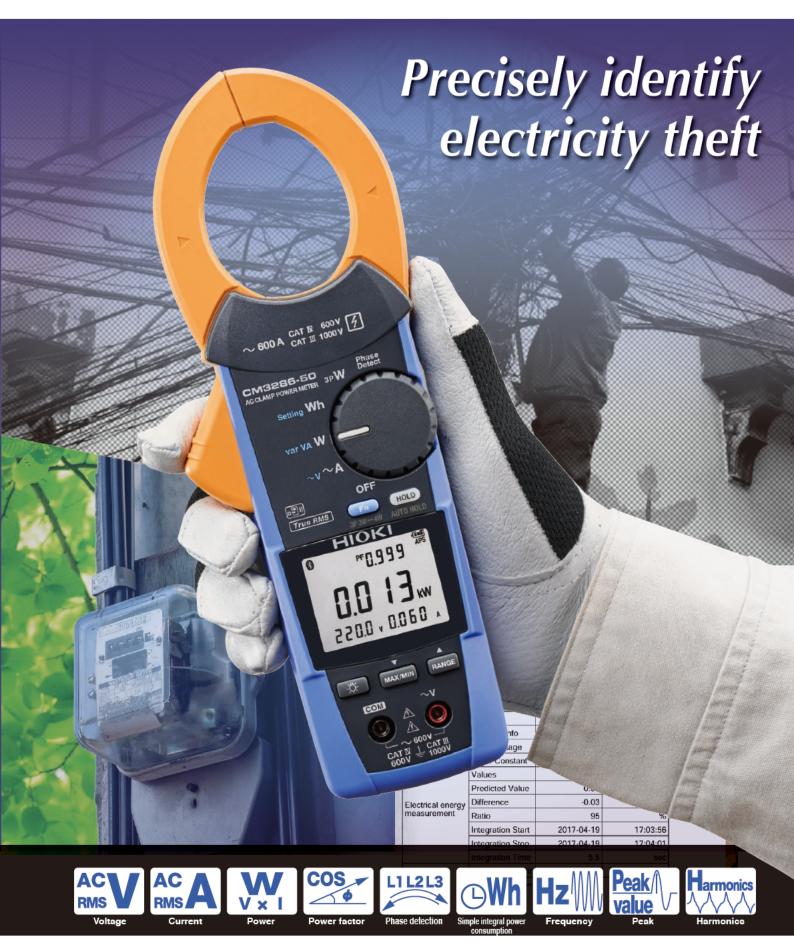


## AC CLAMP POWER METER CM3286-50







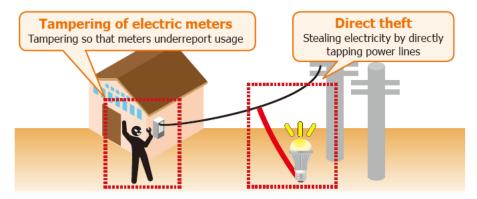




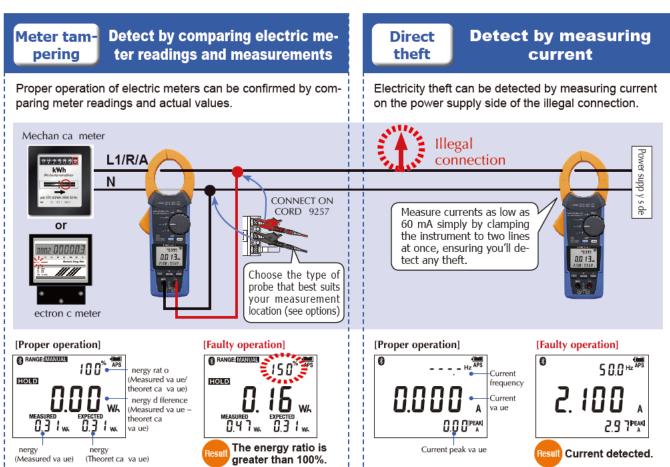


# Accurately detect electricity theft

- 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.







\*Screen values represent example measurements.

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



When you freeze the measured value, it is automated y transferred to a smartphone or tablet, ie im nating the need to jot down readings by hand. You can also create a simple PDF reporting the field, and save data in CSV format for after editing in Excell.



#### 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

Meas e powe g e-p ase o ba a ced ee-p ase c c es a ed va es) -p ase/ 2-w e -p ase/3-w e

ba a ced 3-p ase/3-w e ba a ced 3-p ase/4-w e

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



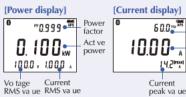
Rotary switch that can be turned with a single hand



Current

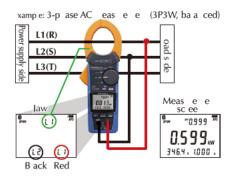
frequency Current

All related parameters are shown on a single screen



#### Simple wiring guide

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



#### **AUTO HOLD**

The clamp meters been 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

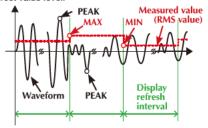




#### Easily check power supply fluctuations

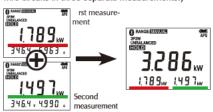
Since it can display maximum (MAX), minimum (MIN), and average (AVG) values, the CM3286 is useful when you need to ascertain the magnitude of fluctuations.

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



#### 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 results. (The instrument can also measure 3-phase/4wire circuits in three separate measurements.)



#### 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.



#### **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.





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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GENNECT	
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General measurement

Tap "Save measured value" in the app or press the HOLD key on the measuring instrument to save the data. Measured values from multiple channels can be



#### Simple logging function

Convenient for observing fluctuations over a short period of time when it's not practical to set up large-scale recording equipment.



#### Harmonic measurement function

The CM3286-01 can measure the harmonic level, content percentage, and total harmonic distortion of voltage or current for the 1st through 30th

Instantly create reports





Measurement line	Single-phase, Three-phase (should be balanced with no distortion)		
Measurement items	Vo tage, Current, Vo tage/ current peak, Active/ reactive/ apparent power, Power factor, Phase angle*1, Frequency, Simple Active Energy Consumption (Single-phase), Vo tage/ current harmonic levels		
AC voltage	[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)		
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)		
Power	[Single phase] 0.005 kW to 360.0 kW Basic accuracy: ±2.0% rdg. ±7 dgt. (50/ 60 Hz, Power factor= [Balanced three-phase 3-wire] 0.020 kW to 623 5 kW Basic accuracy: ±3 0% rdg. ±10 dgt. (50/ 60 Hz, Power factor= [Balanced three-phase 4-wire] 0.040 kW to 1080 kW Basic accuracy: ±2.0% rdg. ±3 dgt. (50/ 60 Hz, Power factor=		
Harmonic*2	Vo tage/ 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			
Dustproof and waterproof*3	Grip: IP50		

Bluetooth® communication	Available When WIRELESS ADAPTER Z3210 (Option) is attached	
Standards	Safety: EN61010, EMC: EN61326	
Power supply	LR03 A kaline battery ×2	
Continuous oper ating time	Approx. 25 hours (Backlight OFF, Bluetooth® OFF) Approx. 18 hours (Backlight OFF, Bluetooth® ON)	
Core jaw diameter	φ 46 mm (1.81 in)	
Dimensions and Mass	65 mm (2.56in) W × 241 mm (9.49in) H × 35 mm (1 38in) D, 450 g (15.9 oz)	

\*The indicated value for three-phase power is based on the assumption of a balanced condition and sine wave without distortion at 50/60 Hz. Accurate measurement is not possible on an unbalanced or inverter controlled three-phase line. Also if the phase (zero cross) cannot be detected due to significant waveform distortion it cannot be measured nor displayed.

\*The power factor / phase angle are values obtained from the zero cross of the current and voltage. If the phase (zero cross) cannot be detected due to significant waveform distortion it cannot be measured nor displayed.

### **Order code/ Options**

	Model No.	(Order Code)		
CM3286-50				
CM3286-90 Inc udes WIRELESS ADAPTER Z3210				
Accessories - CONNECT ON	CORD I 9257 x1	. ///		

- · CARRY NG CASE C0203 ×1
- · LR03 Alkaline ba ery ×2
- ns ruc ion manual x1

(1 2m)







(1.5m, Expands the

length o the L4930)







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Test Equipment Depot - 800.517.8431 - 5 Commonwealth Ave, MA 01801 - TestEquipmentDepot.com

<sup>\*1)</sup> Phase angle obtained from zero cross of current /voltage.

\*2) Harmonic can be displayed by dedicated application softw WTRELES ADAPTER 23210 (Option) is required.

\*3) While in storage or when measuring an insulated conducts.