Precisely identify electricity theft

AC CLAMP POWER METER CM3286

For CM3286-01

*Harmonic can be displayed with the GENNECT Cross dedicated application software.
**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 (CM3286-01 only).

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**Quick and easy data recording**

Hold measured values to send them to a smartphone

**Use the Bluetooth-equipped CM3286-01 for even more convenient measurement.**

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.

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**Meter tampering**

Detect by comparing electric meter readings and measurements

Proper operation of electric meters can be confirmed by comparing meter readings and actual values.

- **Mechanical meter**
- **Electronic meter**

**Direct theft**

Detect by measuring current

Electricity theft can be detected by measuring current on the power supply side of the illegal connection.

- **Illegal connection**
- **Suitable cable**

Choose the type of probe that best suits your measurement location (see options).

**Screen values represent example measurements.**

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**Energy**

(Measured value)  (Theoretical value)

**Energy ratio**

(Measured value / theoretical value)

**Energy difference**

(Measured value − theoretical value)

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**[Proper operation]**

Energy measured value: 0.00 Wh

Energy theoretical value: 0.00 Wh

Energy ratio: 100%

Energy difference: 0.00 Wh

**Result**

The energy ratio is greater than 100%.

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**[Faulty operation]**

Energy measured value: 0.16 Wh

Energy theoretical value: 0.16 Wh

Energy ratio: 100%

Energy difference: 0.00 Wh

**Result**

Current peak value: 0.00 A

Current value: 0.00 A

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**[Proper operation]**

Current frequency: 50 Hz

Current peak value: 2.10 A

**Result**

Current detected.
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.

**Simple wiring guide**

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

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

**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.

**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.

**Instantly create reports**

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

**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**

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

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

**White backlight**

All related parameters are shown on a single screen.

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Specifications

**Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year, Product warranty period for 3 years**

### Measurement line
- Single-phase, Three-phase (should be balanced with no distortion)

### Measurement items
- Voltage, Current, Voltage/Current ratio, Active/Reactive apparent power, Power factor, Phase angle, Frequency, Simple Active/Active Energy Consumption (Single-phase) [CM3286-01 only] Voltage/current harmonic levels

#### AC voltage
- Measurement range: 0.00 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: 0.00 A to 600.0 A, Single 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: ±0.5% rdg. ±3 dgt. (50/60 Hz, Power factor=1)
- [Three-phase] 0.020 kW to 22000 kW, Basic accuracy: ±1% rdg. ±5 dgt. (50/60 Hz, Power factor=1)

### Harmonic
- [Single phase] 6th to 32nd harmonic levels, Total harmonic distortion ratio
- [Three-phase] 3rd to 32nd harmonic levels

### Other functions
- Phase angle **measured**
- 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), 30% RH or less (no condensation, less than 40°C)
- Dustproof and waterproof:
  - Grip: IP54 (EN60529), Jaw: IP50 (EN60529)

### Accessories
- Instruction manual ×1
- LR03 Alkaline battery ×2
- CONNNECTION CORD L9257 ×1

### Software specifications (CM3286-01 only)
- GENNECT Cross (Freeware)
  - Based on Bluetooth® 4.0LE
  - Communication distance: 10 m (line of sight)
  - OS: 10 or later
  - Low energy enabled devices

### Order code/ Options

#### AC CLAMP POWER METER CM3286
- Model No. (Order Code) (Note)
  - CM3286
  - CM3286-01: Built-in Bluetooth® wireless technology

#### Options (Test leads)
- Connection app (CM3286-01 only)
- Tip options (Red/Black: 1 each), Attaches to the tip of the banana plug cable.

#### Options (Clamp adapter)
- CLAMP ON ADAPTER 9290-10 (1000 A AC, 65 mm, CT ratio of 10:1)

#### Options (Test leads)
- TEST LEAD L9207-10

#### Accessories:
- CONNECTION CORD L9257 ×1
- CARRYING CASE C0203 ×1
- LR03 Alkaline battery ×2
- Instruction manual ×1

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

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