AC CLAMP POWER METER CM3286

Quickly check current, voltage, power, and power factor.

Broad measurement ranges
Current: 60 mA to 600 A
Active power: 5W to 360 kW

Fast response
Shorten test times by identifying all of the necessary data on a single screen
Automatically transfer data with Bluetooth wireless technology

*Harmonics can be displayed with the GENNECT Cross dedicated application software at a future update.

CM3286-01 only

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

Visit us at www.TestEquipmentDepot.com
• 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.

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.

Support for large-diameter, high-current measurement

The CM3286 can be used with the optional Clamp On Adapter 9290-10 to measure busbars of up to 55 mm in diameter or 80 × 20 mm. Measure high currents of up to 1000 A AC (or 1500 A for up to 5 min.).

Choose from an extensive selection of probe tips

Select the type of probe that best suits your measurement location, letting you measure in areas that can’t be reached with conventional probes and busbars that you wish to clamp between probes.

*Probe tips: Sold separately

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**Easy-to-see display**  Related parameters shown on the display at once

Related parameters and connection locations shown on the display at once

<table>
<thead>
<tr>
<th>[Power display]</th>
<th>[Current Measurement display]</th>
<th>[Integrated Measurement display]</th>
<th>[Phase Detection display]</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Power display image" /></td>
<td><img src="image2.png" alt="Current Measurement display image" /></td>
<td><img src="image3.png" alt="Integrated Measurement display image" /></td>
<td><img src="image4.png" alt="Phase Detection display image" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Simple wiring guide</th>
<th>AUTO HOLD</th>
<th>Double warnings with sound and light</th>
</tr>
</thead>
<tbody>
<tr>
<td>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)</td>
<td>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.</td>
<td>When the clamp power meter detects excessively over current or voltage input during a continuity check, it alerts you with a red backlight and beeping tone in order to help prevent accidents.</td>
</tr>
</tbody>
</table>

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**Quick and easy data recording**  Hold measured values to send them to a smartphone

CM3286-01 only

Quick and easy data recording

- Hold measured values to send them to a smartphone
- Simple logging function
- Harmonic measurement function

**Bluetooth**

Available for Android and iOS devices

Approx. 10 m (line of sight)

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.

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

- **Main parameter**: Active power
- **Sub-parameter**: Power factor
- **Sub-parameter**: Voltage
- **Sub-parameter**: Current

**Related parameters shown on the display at once**

- **Main parameter**: Single-phase active energy
- **Sub-parameter**: Current peak value
- **Sub-parameter**: Elapsed time
- **Sub-parameter**: Connection names light up in order
### Specifications

**Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year**

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

#### Measurement items
- Voltage, Current, Voltage/ current peak, Active/ reactive/ apparent power, Power factor, Phase angle
- Frequency, Simple Active Energy Consumption (Single-phase) [CM3286-01 only]*2 Voltage/ 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**: 0.00 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
- **Balanced three-phase 3-wire**: 0.002 kW to 63.5 kW
- **Balanced three-phase 4-wire**: 0.040 kW to 108.0 kW
- Basic accuracy: ±3.0% rdg. ±10 dgt. (50/60 Hz, Power factor=1)

#### Harmonic
- Voltage/ current harmonic levels up to 30th, Content factor, Total harmonic distortion ratio

#### Other functions
- Phase angle (*1) ±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
- 600 V AC (Measurement category IV)
- 1000 V AC (Measurement category III)

#### Crest factor
- 6 A/ 60 A range 3 or less, 60 A/ 600 A range 1.6 or less

#### Operating and storage temperature
- 25°C to 65°C or less (-13.0°F to 149.0°F)
- 80% RH or less (no condensation, less than 40°C)

#### Accessorys
- **Dimensions and Mass**: 82 mm (3.23in) W x 241 mm (9.49in) H x 37 mm (1.46in) D, 450 g (15.9 oz)

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#### Standards
<table>
<thead>
<tr>
<th>Item</th>
<th>EN61010.1, EMC: EN61326</th>
</tr>
</thead>
</table>

#### Power supply
- **LR03 Alkaline battery** x2

#### Continuous operating time
- Approx. 25 hours (Backlight OFF, Bluetooth® OFF)
- Approx. 18 hours (Backlight OFF, Bluetooth® ON)

#### Core jaw diameter
- Ø 46 mm (1.81 in)

#### Accessories
- **CONNECTION CORD L9257 x1**
- **CARRYING CASE C0203 x1**
- **LR03 Alkaline battery** x2
- **Instruction manual** x1
- **GENNECT Cross** (freeware)

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#### Software specifications (CM3286-01 only)

<table>
<thead>
<tr>
<th>Interface</th>
<th>Bluetooth® 4.0 LE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>GENNECT Cross (freeware)</td>
</tr>
<tr>
<td><strong>Supported devices</strong></td>
<td>Android™ (Only for Bluetooth® low energy models)</td>
</tr>
<tr>
<td>iOS® (iPhone®5, 3rd generation iPad®, iPad mini™, iPad Pro™, 5th generation iPod Touch®) or later</td>
<td></td>
</tr>
</tbody>
</table>

#### Supported OS
- Android™ 4.3 or later, iOS 8 or later

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### Order code/ Options

**AC CLAMP POWER METER CM3286**

**Model No. (Order Code) (Note)**
- CM3286
- CM3286-01 Built-in Bluetooth® wireless technology

<table>
<thead>
<tr>
<th>Options (Test leads)</th>
<th>Options (for L9257, L4930, L4931)</th>
<th>Tip options (Red/ Black: 1 each), Attaches to the tip of the banana plug cable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONNECTION CABLE SET</td>
<td>TEST PIN SET L4938</td>
<td>TEST LEAD L9007-10</td>
</tr>
<tr>
<td>L4930 (1.2m)</td>
<td>ALLIGATOR CLIP SET L4935</td>
<td>GRABBER CLIP 9243</td>
</tr>
<tr>
<td></td>
<td>BREAKER PIN SET L4939</td>
<td>MAGNETIC ADAPTER SET L4937</td>
</tr>
<tr>
<td></td>
<td>TEST PIN SET L4932</td>
<td>MAGNETIC ADAPTER 9804</td>
</tr>
</tbody>
</table>

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<tr>
<th>Options (Clamp adapter)</th>
<th>Connection app (CM3286-01 only)</th>
</tr>
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<tbody>
<tr>
<td>CLAMP ON ADAPTER</td>
<td>GENNECT Cross (freeware)</td>
</tr>
<tr>
<td>9290-10 (1000 A AC, 65 mm, CT ratio of 10:1)</td>
<td></td>
</tr>
</tbody>
</table>

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*The indicated value for three-phase power is based on the assumption of a balanced condition and no distortion at 50/60 Hz. 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 or displayed.

*The power factor / phase angle values are 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 or displayed.

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