***Smart, 1,000 A, economical***
***CAT III 1,000 V, CAT IV 600 V***

# DCA/ACA CLAMP METER

**Model : CM-6146** *ISO-9001, CE, IEC1010*

*Smart, 1,000 A, economical*
DCA/ACA CLAMP METER
**Model : CM-6146**

* V : Smart ACV/DCV Automatically.
* Ω : Resistance, Diode, Continuity, Capacitance. Automatically.
* 600A : Smart DCA/ACA.
* 1000A : Smart DCA/ACA.
* Function keys : Select, Zero, Hz, Range, Hold.
* CAT III 1000V, CAT IV 600V.
* 32 mm measuring conductor size.
* Auto power off.

Lutron

*TECPEL ELECTRONIC*

*The Art of Measurement*

https://tecpel.com E-mail: sales@tecpel.com Tel: 886-2-2218-3111 # 11

## Smart, 1000 A, IEC1010 CAT III 1000V

# DCA / ACA CLAMP METER

## Model : CM-6146

### FEATURES

| |
|---|
| * Meet IEC 1010 CAT III 1000 V safety requirement. |
| * 6000 counts A/D, high resolution. |
| * ACV, ACA, DCV, DCA, ohms, continuity, Hz, Capacitance, Diode. |
| * Smart function, Auto range or manual range with hold. |
| * Smart operation, Build in 4 intelligent function : " V ", " Ω ", " 600A ", " 1000A ". |
| * " V " function can select ACV, DCV automatically with auto range. |
| * " Ω " function can select the Resistance , Diode, Continuity beeper, Capacitance automatically with auto range. |
| * " 600A " & " 1000A " function can select ACA, DCA automatically. |
| * Data hold . |
| * Auto shut off is available to save battery life. |
| * 10 M ohm impedance for voltage circuit. |
| * Built-in overload protection for most ranges. |
| * LSI circuit provides high reliability and durability. |
| * Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing. |
| * Full line optional adapters : Clamp adapter, Pressure adapter, Sound level adapter, Anemometer adapter, Light adapter, EMF adapter. |

### GENERAL SPECIFICATIONS

| | |
|---|---|
| Display | 39.5 mm x29.8 mm large LCD display |
| Measurement | DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Diode, Continuity beeper. |
| A/D counts no. | 6000 counts. |
| Smart function | " V " function can select ACV, DCV automatically with auto range. " Ω " function can select the Resistance, Diode, Continuity beeper, Capacitance automatically with auto range. 600A " " 1000A " function can measure ACA, DCA . |
| Data hold | To freeze the display reading on the LCD display |
| Power On/Off management | Auto power of or manual power off. |
| Hz button | When execute the voltage or current function also can measure the frequency of signal. |
| Selection Range | Smart function or auto function . manual range selecting. |
| Polarity | Automatic Switching, " - " indicates negative polarity. |
| Sampling time | Approx. 0.5 to 1 second. |
| Operating Temperature | 0 ℃ to 50 ℃ (32 ℉ to 122 ℉) |
| Operating Humidity | Max. 80% R.H. |
| Power supply | DC 9 V battery 006P, MN1604 |
| Power consumption | Approx. DC 9.1 mA. |
| Max. Conductor Size | 32 mm (1.3 inch) Dia. |

| | |
|---|---|
| Dimension | 241 x94 x 46 mm ( 9.5 x 3.7 x 1.8 inch ). |
| Weight | 380 g/0.83 LB ( w/o battery ). |
| Accessories Included | Red and Black Test Leads 1 Set<br>Instruction Manual..... 1 PC |
| Optional accessories | Full line adapters :<br>ACA/DCA current adapter,<br>Pressure adapter,<br>Light adapter,<br>EMF adapter,<br>Sound level adapter,<br>High voltage probe. |

### ELECTRICAL SPECIFICATIONS (23± 5 ℃)

#### DC Voltage

| | |
|---|---|
| Range | 600 mV /6 V/60 V/600 V /1000 V |
| Resolution | 0.1 mV /0.001V /0.01V /0.1V/1 V |
| Accuracy | 600 mV : ± ( 0.8% + 2 d )<br>6 V, 60 V, 600 V, 1000 V : ± ( 0.8% + 1 d ) |
| Input impedance | 10 M ohm. |
| Over load protection | 600 mV range : ± 500 DCV, 350 ACV<br>other ranges : ± 1000 DCV, 1000 ACV |

#### AC Voltage

| | |
|---|---|
| Range | 6 V/60 V/600 V/1000 V |
| Resolution | 0.001V /0.01V /0.1V/1 V |
| Accuracy | ± ( 1% + 2d )<br>* Spec. are tested under 50/60 Hz. |
| Input impedance | 10 M ohm. |
| Over load protection | 600 mV range : ± 500 DCV, 350 ACV<br>other ranges : ± 1000 DCV, 1000 ACV |

#### DC Current, AC Current

| | | |
|---|---|---|
| Range | 600A/1000A | |
| Resolution | 0.1A /1A | |
| Accuracy | 600 A Range | ± ( 1.5% +15d ) |
| | 1000 A Range | ± ( 2% +8d ) |
| Over load protection | AC/DC 1000A | |
| Remark | * ACA specification be tested on sine wave 50/60 Hz.<br>* Measurement range : 0.1A to 1000A | |

#### Diode

| |
|---|
| Short/non conductance, good/defect test |

#### Capacitance

| | |
|---|---|
| Range | 6 nF/60 nF/600 nF/6 uF/60 uF/600 uF |
| Resolution | 0.001nF/0.01nF/0.1 nF/0.001uF/0.01uF/0.1uF |
| Accuracy | ± ( 3 % + 5d ) |
| Over load protection | ± 30 DCV, 30 ACV. |
| Remark | Discharge capacitor before testing. |

#### Frequency

| | |
|---|---|
| Range | 40 Hz to 1 KHz |
| Resolution | 0.001 KHz |
| Accuracy | ± ( 0.5% + 2d ) |
| Over load protection | ± 1000 DCV, 1000 ACV. |

* Appearance and specifications listed in this brochure are subject to change without notice.

200429-CM6146