

Smart, 2,000 A, + max. hold CAT III 1,000 V, CAT IV 600 V

DCA/ACA CLAMP METER

Model : CM-6158

ISO-9001, CE, IEC1010

www.yalab.com.tw 02-2389-0101



1. Smart ACV/DCV Automatically.
2. Resistance, Diode, Continuity, Capacitance Automatically.
3. 600A : Smart DCA/ACA.
4. 2000A : Smart DCA/ACA.
5. Function keys :
Select, Zero, Hz, Range
6. Hold, Max/Min
7. CAT III 1000V, CAT IV 600V.
8. 51 mm measuring conductor size.
9. Auto power off.



Lutron

www.YaLAB.com.tw

The Art of Measurement

Smart, 2000 A, IEC1010 CAT III 1000V, + max. hold

DCA/ACA CLAMP METER

Model : CM-6158

www.YaLAB.com.tw 02-2389-0101

FEATURE

| |
|---|
| * 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 ", " 2000A " . |
| * " 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 " & " 2000A " 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, Tachometer adapter, Pressure adapter, Humidity Adapter, Sound level adapter, Anemometer adapter, Light adapter, EMF adapter. |

GENERAL SPECIFICATION

| | |
|-------------------------|---|
| 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 " " 2000A " function can measure ACA, DCA . |
| MAX./MIN. | Records Maximum & Minimum readings with recall. |
| 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 °C to 50 °C (32 °F to 122 °F) |
| Operating Humidity | Max. 80% RH. |
| Power supply | DC 9 V battery 006P,MN1604 |
| Power consumption | Approx. DC 9.1 mA. |
| Max. Conductor Size | 48 mm (1.89 inch) Dia.. |
| Dimension | 253 x94 x 46 mm (9.96 x 3.7 x 1.8 inch). |
| Weight | 440 g/0.97 LB (w/o battery). |
| Accessories Included | Red and Black Test Leads... 1 Set Instruction Manual... 1 PC Soft carrying case 1 PC |
| Optional accessories | Full line adapters : ACA/DCA current adapter, Tachometer adapter, Humidity adapter, Pressure adapter, Light adapter, EMF adapter, |

| | |
|--|--|
| | Sound level adapter, High voltage probe. |
|--|--|

ELECTRICAL SPECIFICATIONS (23± 5 °C)

DC Voltage

| | | |
|----------------------|---------------------------------|--------------------------|
| Range | 600 mV /6 V/60 V/600 V /1000 V | |
| Resolution | 0.1 mV/0.001 V/0.01 V/0.1 V/1 V | |
| Accuracy | ± (0.8% + 2d) | 600 mV |
| | ± (0.8% + 1d) | 6 V, 60 V, 600 V, 1000 V |
| Input impedance | 10 M ohm. | |
| Over load protection | 600 mV range | ± 500 DCV, 350 ACV |
| | 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) * Spec. are tested under 50/60 Hz. | |
| Input impedance | 10 M ohm. | |
| Over load protection | 600 mV ran± 500 DCV, 350 ACV other range± 1000 DCV, 1000 ACV | |

DC Current, AC Current

| | | |
|----------------------|---|--------------|
| Range | 600A/1000A | |
| Resolution | 0.1A /1A | |
| Accuracy | 600 A Range | ± (2% +5d) |
| | 2000 A Range | ± (2% +8d) |
| Over load protection | AC/DC 1000A | |
| Remark | * ACA specification be tested on sine wave 50/60 Hz. * 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 | 40Hz to 1KHz | |
| Resolution | 0.001kHz | |
| Accuracy | ± (0.5% + 2d) | |
| Over load protection | ± 1000 DCV, 1000 ACV. | |

OHMS (auto range

| | | |
|----------------------|---------------------------------------|--|
| Range | 600/6 K/60 K/600 K/6 M/60M | |
| Resolution | 0.1Ω /0.001K/0.01K/0.1K/0.001M/0.01M | |
| Accuracy | 600 ohm : ± (1 % + 2d) | |
| | 6K/60K/600K/6M/60M : ± (1.5 % + 2d) | |
| Over load protection | ± 350 DCV, 350 ACV. | |

Continuity Beeper

Beeper will sound if measured resistance less than 20 ohm.

Max. & Min. Measurement

During the operation can memorize the maximum and the minimum measurement value.

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

CM-6158+1502

www.YaLAB.com.tw **02-2389-0101**