

# No hassle warranty

NO HASSL

POCRA

No waiting.

No shipping charges.

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)

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# ACDC-100 TRMS

# 1000A AC/DC Clamp-On Multimeter

Where accuracy, quality, and the newest technology meet. The ACDC-100 offers superior AC/DC measurement capabilities, highest product quality and enhanced ergonomics design. The TRMS version addresses needs of professionals who rely on performance and reliability.

- True RMS
- Backlight
- Capacitance test
- AC/DC voltage to 600V
- Resistance
- Continuuity Beeper
- Relative zero mode
- Auto power off
- Data hold
- MAX capture function for in rush current measurements (30 mS response)
- Large, easy to read digital display
- Diode Test
- Audible continuity
- Accommodates conductors up to 50mm (2.00") in diameter
- "Third hand" test probe holder
- Rubber over-molded case with built-in probes storage
- Carrying case, test leads, batteries (installed) and user manual included





#### www.Amprobe.com



## 1000A ACDC-100 TRMS AC/DC Clamp-On Multimeter

## Data Sheet

Electrical Specifications Accuracy is ±(% reading digits + number of digits) or otherwise specified, at 23°C ± 5°C & less than 75% R.H.

| Function   | Range   | Accuracy                                       |
|--|---|--|
| DC Voltage   |   |  |
|  | 400.0 mV                                      | 0.3% + 3d                                      |
|  | 4.000V, 40.00V, 400.0V                        | 0.5% + 3d                                      |
|  | 600V  | 1.0% + 4d                                      |
| NMRR :   | >50dB @ 50/60Hz                               |  |
| CMRR :   | >120dB @ DC, 50/60Hz, Rs=1kΩ                  |  |
| Input Impedance :  | 10MΩ, 30pF nominal (1000MΩ for 400.0mV range) |  |
| AC Voltage   |   |  |
| 50Hz ~ 500Hz   | 400.0mV 1)                                    | 4.0% + 4d                                      |
| 50Hz ~ 60Hz  | 4.000V, 40.00V, 400.0V                        | 1.0% + 4d                                      |
| 60Hz ~ 500Hz   | 4.000V, 40.00V, 400.0V                        | 1.5% + 4d                                      |
| 50Hz ~ 500Hz   | 600V  | 2.0% + 4d                                      |
| CMRR :   | >60dB @ DC to 60Hz, Rs=1k $\Omega$            |  |
| Input Impedance:   | 10MΩ, 30pF nominal                            |  |
| ACDC-100 TRMS Crest Factor:  | < 1.6 : 1 at full scale & < 3.2 : 1 at hal    | f scale  |
| <sup>1)</sup> Selection by RANGE button manually   | v, and is specified AC 60mV and up            |  |
| Resistance   | ,,  |  |
|  | 400.0Ω  | 0.8% + 6d                                      |
|  | 4.000kΩ, 40.00kΩ, 400.0kΩ                     | 0.6% + 4d                                      |
|  | 4.000ΜΩ                                       | 1.0% + 4d                                      |
|  | 40.00ΜΩ                                       | 2.0% + 4d                                      |
| Open Circuit Voltage :   | 0.4VDC typical                                | 2.0,0110                                       |
| Audible Continuity Tester  |   |  |
| Open Circuit Voltage:  | 0.4VDC typical                                |  |
| Range: 400.0Ω; Accuracy:   | 1.5% + 6d                                     |  |
| Audible threshold:   | between 10 $\Omega$ and 120 $\Omega$ .        |  |
| Diode Tester   |   |  |
| Open Circuit Voltage   | Test Current (Typical)                        |  |
| < 1.6 VDC  | 0.4mA   |  |
| Capacitance  |   |  |
|  | 500.0nF, 5.000μF, 50.00μF,                    |  |
|  | 500.0μ <b>F,</b> 3000μF <sup>1)</sup>         | 3.5% + 6d <sup>2) 3)</sup>                     |
| <sup>1)</sup> Additional 50.00nF range accuracy is   | not specified                                 |  |
| <sup>2)</sup> Accuracies with film capacitor or bet  | ter   |  |
| <sup>3)</sup> Specified with battery voltage above warning voltage of approximately 2.4 <sup>3</sup> |   | racy decreases gradually to 12% at low battery |
| DC Current (Clamp-on)  |   |  |
| 400.0A   | 0.0A ~ 400.0A                                 | 1.5% + 4d <sup>1) 2)</sup>                     |
| 1000A  | 400A ~ 800A                                   | 1.5% + 4d <sup>1) 2)</sup>                     |
|  | 800A ~ 900A                                   | 2.0% + 4d <sup>1) 2)</sup>                     |
|  | 900A ~ 1000A                                  | 5.0% + 30d <sup>1) 2)</sup>                    |
|  |   |  |



## 1000A ACDC-100 TRMS AC/DC Clamp-On Multimeter

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| Function                               | Range   | Accuracy                      |  |
|--|---|-------------------------------|--|
| AC Current (Clamp-on)                  |   |                               |  |
| 400.0A                                 |   |                               |  |
|  | 15Hz ~ 40Hz   | 2.0% + 5d <sup>1) 2) 3)</sup> |  |
|  | 40Hz ~ 200Hz  | 1.5% + 5d <sup>1) 2)</sup>    |  |
|  | 200Hz ~ 400Hz @ <50A 4)                                 | 1.5% + 5d <sup>1) 2)</sup>    |  |
|  | 400Hz ~ 1kHz @ <50A 4)                                  | 2.0% + 5d <sup>1) 2)</sup>    |  |
| 800A                                   |   |                               |  |
|  | 15Hz ~ 40Hz @ 400A ~ 600A                               | 2.0% + 5d 1) 2) 3)            |  |
|  | 40Hz ~ 100Hz @ 400A ~ 600A                              | 1.5% + 4d <sup>1) 2)</sup>    |  |
|  | 15Hz ~ 60Hz @ 600A ~ 800A                               | 5.0% + 30d <sup>1) 2)</sup>   |  |
| <sup>1)</sup> Induced error from adjac | cent current-carrying conductor: < 0.01A/A              |                               |  |
| 2) ACDC-100 TRMS crest Fa              | ctor: < 1.6 : 1 at full scale & < 3.2 : 1 at half scale |                               |  |
| <sup>3)</sup> 4.0% + 5d for ACDC-100   | TRMS  |                               |  |

<sup>4)</sup> Accuracy is specified at <50A in this frequency bandwidth due to limited calibrator output capability for testing

#### **General Specifications**

| <b>D</b> <sup>1</sup> · · · · ·   |   |  |
|---|---|--|
| Display:  | 3-3/4 digits 4000 counts LCD display  |  |
| Update Rate:  | 3 per second nominal  |  |
| Polarity:   | Automatic   |  |
| Low Battery:  | Below approx. 2.4V  |  |
| Operating Temperature:  | 0°C to 40°C   |  |
| Relative Humidity:  | Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C             |  |
| Altitude:   | Operating below 2000m   |  |
| Storage Temperature:  | -20°C to 60°C, < 80% R.H. (with battery removed)  |  |
| Temperature Coefficient:  | nominal 0.15 x (specified accuracy)/ °C @(0°C -18°C or 28°C -40°C), or otherwise specified                                |  |
| Sensing:  | True RMS  |  |
| Safety:   | Meets EN61010-1:2001; IEC61010-2-032(2002), EN61010-2-032(2002), UL61010B-2-032(2003)<br>Category III 600 Volts AC & DC.  |  |
| Transient protection:   | 6.5kV (1.2/50μs surge) for all models   |  |
| Pollution degree:   | 2   |  |
| E.M.C.:   | Meets EN61326-1   |  |
| In an RF field of 3V/m:<br>Capacitance function is not speci<br>Performance above 3V/m is not s | ified Other function ranges: Total Accuracy = Specified Accuracy + 45 digits<br>pecified                                  |  |
| Overload Protections:   |   |  |
| Clamp-on jaws: DC 1000A or AC 80  | 0A rms continuous + & COM terminals (all functions) : 600VDC/VAC rms  |  |
| Power Supply:   | standard 1.5V AAA Size (NEDA 24G or IEC R03) battery X 2; or 1.5V<br>AAA Size (NEDA 24A or IEC LR03) alkaline battery X 2 |  |
| Power Consumption:  | typical 11mA for ACA/DCA and 2.9mA for other functions  |  |
| APO Timing:   | Idle for 30 minutes   |  |
| APO Consumption:  | typical 190μA   |  |
| Dimension:  | L227mm X W78mm X H40mm  |  |
| Weight:   | 290 gm approx   |  |
| Jaw opening & Conductor diameter:   | 50mm max  |  |
|   |   |  |



#### 1000A ACDC-100 TRMS AC/DC Clamp-On Multimeter

Data Sheet

Included Accessories Test leads; carrying case SV-U; users manual

#### **Optional Accessories**

| ELS2A       | Line splitter (Energizer)                        |
|-------------|--|
| ACF-3000 AK | 3000A AC Flexible Clamp-on Attachment            |
| TMA-K       | Single Input Thermocouple Temperature Attachment |
| MTL-500     | Test Lead Kit                                    |
|             | Test Lead Kit                                    |

#### Replacement Accessories

MTL-90B Test Leads w/Alligator Clips

Available with TRMS and Display Backlight

The ACDC-100 TRMS version addresses the needs of professionals who rely on performance and reliability. A large LCD for easy viewing.

#### Simplified Interface

These full function clamp-ons have simplified interfaces to help your customers get their work done quickly. Easy-to-read oversize display screens feature the large digits. Each meter offers auto and manual ranging along relative zero mode functions.

#### Amprobe® Test Tools

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