



## ACDC-100

### 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 ergonomic design.

- 1000 Amp AC and DC current
- Capacitance test
- AC/DC voltage to 600V
- Resistance
- Continuity 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
- 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



## No hassle warranty

*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.



N10140

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

## Data Sheet

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

Function	Range	Accuracy
<b>DC Voltage</b>		
	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=1k $\Omega$	
Input Impedance :	10M $\Omega$ , 30pF nominal (1000M $\Omega$ for 400.0mV range)	
<b>AC Voltage</b>		
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:	10M $\Omega$ , 30pF nominal	
1) Selection by RANGE button manually, and is specified from AC 40mV and up		
<b>Resistance</b>		
	400.0 $\Omega$	0.8% + 6d
	4.000k $\Omega$ , 40.00k $\Omega$ , 400.0k $\Omega$	0.6% + 4d
	4.000M $\Omega$	1.0% + 4d
	40.00M $\Omega$	2.0% + 4d
Open Circuit Voltage :	0.4VDC typical	
<b>Audible Continuity Tester</b>		
Open Circuit Voltage:	0.4VDC typical	
Range: 400.0 $\Omega$ ; Accuracy:	1.5% + 6d	
Audible threshold:	between 10 $\Omega$ and 120 $\Omega$ .	
<b>Diode Tester</b>		
Open Circuit Voltage	Test Current (Typical)	
< 1.6 VDC	0.4mA	
<b>Capacitance</b>		
	500.0nF, 5.000 $\mu$ F, 50.00 $\mu$ F, 500.0 $\mu$ F, 3000 $\mu$ F 1)	3.5% + 6d <sup>2) 3)</sup>
1) Additional 50.00nF range accuracy is not specified		
2) Accuracies with film capacitor or better		
3) Specified with battery voltage above 2.8V (approximately half full battery). Accuracy decreases gradually to 12% at low battery warning voltage of approximately 2.4V		
<b>DC Current (Clamp-on)</b>		
400.0A	0.0A ~ 400.0A	1.5% + 4d 1) 2)
1000A	400A ~ 800A	1.5% + 4d 1) 2)
	800A ~ 900A	2.0% + 4d 1) 2)
	900A ~ 1000A	5.0% + 30d 1) 2)
1) Induced error from adjacent current-carrying conductor: < 0.01A/A		
2) $\Delta$ Zero mode must be applied to zero the unit before measurement to ensure accuracy. This is particularly important below 20A.		



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Function	Range	Accuracy
<b>AC Current (Clamp-on)</b>		
400.0A	15Hz ~ 40Hz	2.0% + 5d <sup>1)</sup>
	40Hz ~ 200Hz	1.5% + 5d <sup>1)</sup>
	200Hz ~ 400Hz @ <50A <sup>2)</sup>	1.5% + 5d <sup>1)</sup>
	400Hz ~ 1kHz @ <50A <sup>2)</sup>	2.0% + 5d <sup>1)</sup>
800A	15Hz ~ 40Hz @ 400A ~ 600A	2.0% + 5d <sup>1)</sup>
	40Hz ~ 100Hz @ 400A ~ 600A	1.5% + 4d <sup>1)</sup>
	15Hz ~ 60Hz @ 600A ~ 800A	5.0% + 30d <sup>1)</sup>

<sup>1)</sup> Induced error from adjacent current-carrying conductor: < 0.01A/A  
<sup>2)</sup> Accuracy is specified at <50A in this frequency bandwidth due to limited calibrator output capability for testing

## General Specifications

<b>Display:</b>	3-3/4 digits 4000 counts LCD display
<b>Update Rate:</b>	3 per second nominal
<b>Polarity:</b>	Automatic
<b>Low Battery:</b>	Below approx. 2.4V
<b>Operating Temperature:</b>	0°C to 40°C
<b>Relative Humidity:</b>	Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C
<b>Altitude:</b>	Operating below 2000m
<b>Storage Temperature:</b>	-20°C to 60°C, < 80% R.H. (with battery removed)
<b>Temperature Coefficient:</b>	nominal 0.15 x (specified accuracy)/ °C @(0°C -18°C or 28°C -40°C), or otherwise specified
<b>Sensing:</b>	Average sensing
<b>Safety:</b>	Meets EN61010-1:2001; IEC61010-2-032(2002), EN61010-2-032(2002), UL61010B-2-032(2003) Category III 600 Volts AC & DC.
<b>Transient protection:</b>	6.5kV (1.2/50µs surge) for all models
<b>Pollution degree:</b>	2
<b>E.M.C.:</b>	Meets EN61326-1
In an RF field of 3V/m: Capacitance function is not specified Other function ranges: Total Accuracy = Specified Accuracy + 45 digits Performance above 3V/m is not specified	
<b>Overload Protections:</b>	
<b>Clamp-on jaws:</b> DC 1000A or AC 800A rms continuous + & COM terminals (all functions) : 600VDC/VAC rms	
<b>Power Supply:</b>	standard 1.5V AAA Size (NEDA 24G or IEC R03) battery X 2; or 1.5V AAA Size (NEDA 24A or IEC LR03) alkaline battery X 2
<b>Power Consumption:</b>	typical 11mA for ACA/DCA and 2.9mA for other functions
<b>APO Timing:</b>	Idle for 30 minutes
<b>APO Consumption:</b>	typical 10µA
<b>Dimension:</b>	L227mm X W78mm X H40mm
<b>Weight:</b>	290 gm approx
<b>Jaw opening &amp; Conductor diameter:</b>	50mm max

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### 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
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### 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.