AMPROBE®

Data Sheet



ACDC-3400 IND
CAT IV Industrial True RMS Clamp Meter

This CAT IV rated clamp is ideal for industrial applications and utilities that require an extra level of safety. Includes True RMS sensing for accuracy and dependability. Extra large jaw to accommodate wide diameter wires.

- **True RMS**
- **Measures AC Current up to 1000 ACA, Voltage up to 750 VAC / 1000 VDC, Frequency, Resistance and Capacitance and Duty Cycle**
- **Peak Hold**
- **1000A DC Current**
- **Relative Zero**
- **Audible continuity**
- **Auto and manual ranging**
- **Auto power off**
- **Data hold**
- **Backlight**
- **Diode Test**
- **Duty Cycle**
- **Accommodates conductors up to 2" (51mm) in diameter**
- **Safety CAT IV 600 V, CAT III 1000 V**
- **Test leads, battery (installed), Users Manual, and Carrying Case included with the product**

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.

(note: $500 MSLP limit)

CAT III 1000V CAT IV 600V N10140 CE

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Specifications (valid for 23 °C ± 5 °C, for less than 75% relative humidity).

DC Volts	Ranges	Accuracy
	660.0 mV, 6.600 V, 66.00 V, 660.0 V, 1000 V	± (0.5% rdg + 2 dgts)
Input impedance	660 mV: >100 MΩ; 6.6 V:10 MΩ; 66 V to 1000 V: 9.1 MΩ	
Overload protection	1000 VDC or 750 VAC rms	

AC Volts True RMS	Ranges	Frequency	Accuracy
	660.0 mV	50 to 100 Hz	± (1.5% rdg + 8 dgts)
	6.600V, 66.00V	50 to 500 Hz	± (1.5% rdg + 8 dgts)
	660.0V, 750V	50 to 500 Hz	± (1.5% rdg + 8 dgts)
	Frequency*	50 to 1 kHz	± (0.1% rdg + 5 dgts)
	* Frequency: 10% to 100% of voltage range		

Peak Hold	Ranges	Frequency	Accuracy
	66.00V, 660.0V, 750V	50 to 500 Hz	± (3.0% rdg + 300 dgts)

AC coupled TRMS	5% to 100% of range
Crest factor	≤ 3
Input impedance	660 mV: >100 MΩ; 6.6 V:10 MΩ; 66 V to 750 V: 9.1 MΩ
Overload protection	1000 VDC or 750 VAC rms

AC Current True RMS	Ranges	Frequency	Accuracy
	660.0A	50 to 60 Hz	± (2.0% rdg + 10 dgts)
	660.0A	61 to 400 Hz	± (3.0% rdg + 10 dgts)
	1000 A	50 to 60 Hz	± (2.5% rdg + 10 dgts)
	1000 A	61 to 400 Hz	± (3.5% rdg + 10 dgts)
	Frequency*	50 to 1kHz	± (0.1% rdg + 5 dgts)
	* Frequency: 10% to 100% of current range		

Peak Hold	Ranges	Frequency	Accuracy
	660.0A, 1000A	50 to 400 Hz	± (3.0% rdg + 200 dgts)
AC coupled TRMS	5% to 100% of range		
Crest factor	≤ 3		
Overload protection	1000A AC		

DC Current	Range	Accuracy
	660.0A	± (2.0% rdg + 5 dgts)
	1000A	± (3.0% rdg + 5 dgts)
Overload protection	1000A DC	

Resistance	Range	Accuracy
	660.0Ω, 6.600kΩ, 66.00kΩ, 660.0kΩ	± (1.0% rdg + 5 dgts)
	6.600MΩ	± (2.0% rdg + 5 dgts)
	66.00MΩ	± (3.5% rdg + 5 dgts)
Open circuit volts	-0.8 Vdc typical , (-1.2 Vdc on 660 Ω range)	
Overload protection	1000 VDC or 750 VAC rms	

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Specifications (continued)

Capacitance	Range	Accuracy
	6.600ηF, 66.00ηF	±(3.0% rdg + 20 dgts)
	660.0ηF, 6.600µF, 66.00µF,660.0µF	±(3.0% rdg + 10 dgts)
	6.6 mF	±(5.0% rdg + 10 dgts)
Overload protection	1000 VDC or 750 VAC rms	

Diode Test	
Test current	1.0 mA (approximate)
Accuracy	± (1.5% rdg + 5 dgts)
Open circuit volts	3.2 Vdc typical
Audible indication	< 0.25 V
Overload protection	1000 VDC or 750 VAC rms

Continuity	
Ranges	660.0 Ω
Audible indication	< 30 Ω
Response time	500 ms
Overload protection	1000 VDC or 750 VAC rms

Frequency (Auto ranging)	Range	Accuracy
	66.00 Hz, 660.0 Hz, 6.600k Hz, 66.00 kHz, 660.0 kHz, 1.000 MHz	± (0.1% rdg + 3 dgts)
Sensitivity	10 Hz to 1 MHz: > 3.5 V rms	
Minimum pulse Width	>1 us	

% Duty Cycle	
Range	5.0 % to 95.0 %
Resolution:	0.1 %
Minimum Pulse Width	>10 us
Frequency range	40 Hz to 20 kHz
Accuracy (5V logic)	± (2% rdg + 10 dgts)
Overload protection	1000 VDC or 750 VAC rms

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Technical Data – General Information

Display	3¾ digit liquid crystal display (LCD) (6600 count) with a 66-segment analog bar-graph
Polarity	Automatic, positive implied, negative polarity indication
Over range	(OL) or (-OL) is displayed
Zero	Automatic
Low battery indication	"▬" is displayed when the battery voltage drops below the operating level
Auto power off	Approx. 30 minutes
Backlight	Backlight auto-off approx. 60 sec.
Measurement rate	2.8 times per second, nominal
Analog bar-graph	28 times per second
Operating environment	0°C to 50°C (32°F to 122°F) at < 70% R.H.
Storage temperature	-20°C to 60°C (-4°F to 140°F) at < 80% R.H. with battery removed from meter
Temperature Coefficient	0.1 × (specified accuracy) per °C. (0°C to 18°C, 28°C to 50°C)
Environmental	2000m (6561.7 Feet), Indoor use
Jaw opening capability	57 mm (2.0 in) conductor
Power	Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22
Battery life	Typically 75 hours with carbon-zinc; 150 hour with alkaline
Dimensions	283 x 105 x 50 mm (11.1 x 4 x 2.1 in.)
Weight	559 gm (1.23 lb.)
Safety	LVD Meets EN61010-1:2001 and EN61010-2-032:2002, CAT III 1000V, CAT IV 600V, class II and pollution degree 2
CE EMC	EN 61326-1:2006 This product complies with requirements of the following European Community Directives: 2004/108/EC (Electromagnetic Compatibility) and 2006/95/EC (Low Voltage) as amended by 93/68/EEC (CE Marking). However, electrical noise or intense electromagnetic fields in the vicinity of the equipment may disturb the measurement circuit. Measuring instruments will also respond to unwanted signals that may be present within the measurement circuit. Users should exercise care and take appropriate precautions to avoid misleading results when making measurements in the presence of electronic interference.



Optional Accessories

TL-1500 Test leads with set of alligator clips

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03/2009 3465184 Rev A