



CAT IV Navigator™ Clamps Meters

Complete with a full range of diagnostic capabilities including phase sequence, power and power factor, total harmonics distortion and individual harmonics, inrush current and low pass filter, the Amprobe Navigator Clamp serves as a first line of defense for spot checking and verifying system conditions before deploying more specialized tools -- or incurring additional costs. It is rated CAT IV 600 V, CAT III 1000 V meter with voltage measurement up to 1000 V AC/DC. The new innovative navigation system eliminates confusing push buttons, and replaces them with a single joystick allowing the user to select functions directly on the display.

Amprobe Product Warranty

Amprobe is committed to delivering the highest quality test and measurement products and provides a 1 year warranty with most of its products. The length of the product warranty is stated in the user's manual that comes with each product and can be downloaded from www.Amprobe.com.

If you ever need warranty service, please contact the Amprobe Service Department at 1-877-AMPROBE.

To better serve you for products with a list price up to \$500, Amprobe authorizes an over-the-counter product exchange from any authorized Amprobe distributor within 30 days from the date of purchase.

- True-rms
- Measurements
 - Voltage up to 1000 V AC/DC, resistance, frequency, THD (Total Harmonics Distortion) and individual harmonics form 1 to 25, power, power factor
 - AC Current
 - Up to 600 A (ACD-50NAV, ACD-51NAV, ACDC-52NAV)
 - Up to 1000 A (ACD-53NAV, ACDC-54NAV)
 - DC Current
 - Up to 600 A (ACDC-52NAV)
 - Up to 1000 A (ACDC-54NAV)
 - Capacitance
 - Temperature measurement in °C or °F (ACD-51NAV, ACDC-54NAV only) - Temp. adapter and probe included
 - DC micro amps (ACD-51NAV only)
- Phase rotation indication
- Non-contact voltage detection
- Inrush current measurement for motors
- Low pass filter for variable frequency drives
- Continuity Beeper
- Min, Max and Smart Data Hold
- Peak hold
- Auto torch-light when clamping
- Large 10,000 count display with active backlight and analog bar graph
- Auto Power Off
- Maximum jaw opening 1.77" (45mm)
- 4 feet drop proof
- Deluxe carrying case Included
- CAT IV 600 V /CAT III 1000 V safety standard





CAT IV Navigator™ Clamps Meters

Data Sheet

It's all about easy and reliable measurements. Amprobe's new line of Navigator clamp meters feature quick, easy to use single hand selection of measurements. The joy stick control allows quick selection of measurement features on the display from MAX/MIN to power factor to AC/DC, with many more available. Simply highlight the desired measurement feature using the joy stick and press to select. Rugged and CAT IV reliable, these units also feature, super bright backlight display, built-in jaw flashlight and overmold bodies to absorb shock -- all you need for commercial and industrial environments.

Individual Models and Descriptions:

ACD-50NAV	600A AC Navigator Clamp
ACD-51NAV	600A AC TRMS Navigator Clamp
ACDC-52NAV	600A AC/DC TRMS Navigator Clamp
ACD-53NAV	1000A AC TRMS Navigator Clamp
ACDC-54NAV	1000A AC/DC TRMS Navigator Clamp

General Specifications

Feature	ACD-50NAV	ACD-51NAV	ACDC-52NAV	ACD-53NAV	ACDC-54NAV	Best Accuracy
AC Current	100.00, 600.0A			100.00, 1000.0A		± (1.5% Rdg + 5 LSD)
DC Current			100.00, 600.0A		100.00, 1000.0A	± (1.5% Rdg + 5 LSD)
AC Voltage	100.00V, 1000V					±(1.0% Rdg + 5 LSD)
DC Voltage	100.00V, 1000V					±(0.7% Rdg + 2 LSD)
Resistance	1.0000KΩ, 10.00KΩ, 100.00KΩ					±(1.0% Rdg + 3 LSD)
Frequency	20.0Hz to 10KHz					±(0.5% Rdg +3 LSD)
Capacitance	4.000 μF, 400.0 μF, 4000 μF					±(1.9% Rdg + 8 LSD)
DCμA		1000.0μA				±(1.7% Rdg + 2 LSD)
Temperature		-58F to 1832F (-50°C to 1000°C)			-58F to 1832F (-50°C to 1000°C)	±(1% Rdg + 0.8°C)
THD (Total Harmonics Distortion)	0.1% to 100.0%					±(3.0% Rdg + 10 LSD)
Individual Harmonics	1 to 25					
Power	10kW to 600kW			10kW to 1000kW		±(2.5% Rdg + 5 LSD)
Power Factor	-1.00 to 1.00					± 3 degrees
Dimension (HxWxD)	238.3 x 87.3 x 51.0mm (9.4 x 3.4 x 2in)	238.3 x 87.3 x 51.0mm (9.4 x 3.4 x 2in)	238.3 x 87.3 x 51.0mm (9.4 x 3.4 x 2in)	260 x 87.3 x 51.0mm (10.2 x 3.4 x 2in)	260 x 87.3 x 51.0mm (10.2 x 3.4 x 2in)	
Weight	380g (0.84lb)	380g (0.84lb)	380g (0.84lb)	420g (0.93lb)	420g (0.93lb)	
Accessory	Test leads (one pair), Carrying case and Manual	Test leads (one pair), Temp. adapter probe, Carrying case and Manual	Test leads (one pair), Carrying case and Manual	Test leads (one pair), Carrying case and Manual	Test leads (one pair), Temp. adapter probe, Carrying case and Manual	

Amprobe® Test Tools
 website: www.Amprobe.com
 email: info@amprobe.com
 Everett, WA 98203
 Tel: 877-AMPROBE

Amprobe® Test Tools Europe
 In den Engematten 14
 79286 Glottertal, Germany
 Tel.: +49 (0) 7684 8009 - 0

©2010 Amprobe Test Tools. All rights reserved.
 3/2011 CAT IV NavClamps_DS Rev A
 3980834 A