

NAVIGATOR™ CLAMP METER SERIES

JOB FUNCTION	APPLICATIONS	RECOMMENDED NAVIGATOR CLAMP
INDUSTRIAL ELECTRICIAN	<ul style="list-style-type: none"><li>Working on large industrial systems requiring DC current measurement such as transport (railway, subway, trams, lifts, etc), solar panels or emergency applications such as alarm systems, emergency lighting, factories and computer centers</li><li>High pressure environments where critical advanced functions such as phase sequence, power quality, inrush current and/or low-pass filter are needed to properly diagnose and troubleshoot</li></ul>	ACDC-52 NAV
		ACDC-54 NAV
FACILITIES MAINTENANCE	<ul style="list-style-type: none"><li>Monitoring the condition of various systems as a first defense in order to assess the need for more advanced equipment such as power quality analyzers</li><li>Verify system performance and quickly troubleshoot problems during installation projects to minimize downtime</li><li>Convenient, everyday tool for those working on critical machinery</li></ul>	ACD-50 NAV
		ACD-53 NAV
INDUSTRIAL HVAC TECHNICIAN	<ul style="list-style-type: none"><li>Maintaining large, complex HVAC systems in factories, data centers, hospitals and commercial buildings</li><li>Best tool for techs who need the following critical measurements during HVAC system checks and repairs:<ul style="list-style-type: none"><li>Capacitance for checking startup capacitors</li><li>Micro Amps for the verification of the flame sensors</li><li>Temperature for checking cooling/heating performance</li><li>Inrush current for verification of the compressor motor</li><li>Low-pass filter to allow measurement of the variable frequency drives</li></ul></li></ul>	ACD-51 NAV

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		100.00V, 1000V			+/- (1.0% Rdg + 5 LSD)
DC VOLTAGE	100.00V, 1000V		100.00V, 1000V			+/- (0.7% Rdg + 2 LSD)
RESISTANCE	1.0000KΩ, 10.00KΩ, 100.00KΩ		1.0000KΩ, 10.00KΩ, 100.00KΩ			+/- (1.0% Rdg + 3 LSD)
FREQUENCY	20.0Hz to 10KHz		20.0Hz to 10KHz			+/- (0.5% Rdg + 3 LSD)
CAPACITANCE	4.000 μF, 400.0 μF, 4000 μF		4.000 μF, 400.0 μF, 4000 μF			+/- (1.9% Rdg + 8 LSD)
DC A		1000.0μA				+/- (1.7% Rdg + 2 LSD)
TEMPERATURE		-50F to 1832F (-50° C to 1000° C)			-50F to 1832F (-50° C to 1000° C)	+/- (1% Rdg + 0.8 )
THD (TOTAL HARMONICS DISTORTION)	0.1% to 100.0%		0.1% to 100.0%			+/- (3.0% Rdg + 10 LSD)
INDIVIDUAL HARMONICS	1 to 25		1 to 25			
POWER	10kW ~600kW		10kW ~1000kW			+/- (2.5% Rdg + 5 LSD)
POWER FACTOR	-1.00 to ~1.00		-1.00 to ~1.00			+/- 3 degrees
ACCOMMODATES CONDUCTORS	Up to 1.45" (37 mm) in diameter		Up to 1.60" (40 mm) in diameter			

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INTRODUCING THE  
AMPROBE NAVIGATOR™  
CLAMP SERIES.

THE  
BEST  
DAMN  
TOOLS  
FOR THE  
MONEY.





# TOUGH ON THE JOB. EASY ON THE WALLET.

With so many key features, Amprobe's new Navigator Clamp Meters serve as a first line of defense in any industrial setting. Spot check and verify system conditions before deploying more specialized tools — or incurring additional costs.

What's more, the Amprobe Navigator Clamp series boasts some of the most robust features, including:

- Phase sequence
- Power and power factor measurements
- Total harmonics distortion
- Individual harmonics
- Low-pass filter

## NAVIGATE EASILY THROUGH ANY JOB

Designed for one-hand operation, our innovative navigation system eliminates push buttons. Instead, all Navigator Clamps incorporate an easy-to-use joystick that allows the users to select functions directly on the large backlit display.

## TYPICAL NAVIGATOR™ CLAMP APPLICATIONS

**Motor Testing.** Use inrush current to test motors, capacitance to check startup capacitors, and phase rotation to measure three-phase systems.

**Power Quality.** Quickly verify the efficiency of the electrical system by measuring power factor and working power measurements. Check for harmful harmonics while you perform daily system checks.

**Transformers.** The Navigator Clamp is the ideal tool for maintenance and installation.

**Facility Maintenance.** Perform routine load studies, motor testing, power quality measurements and HVAC system checks.

**HVAC Maintenance.** Use many of the key functions on the ACD-51NAV including capacitance, micro amps, temperature, inrush current and low-pass filter for routine HVAC maintenance.

# ANATOMY OF ONE TOUGH CLAMP METER.



**Work light**  
turns on when jaw is opened.

**Non-contact voltage detection**  
warns against dangerous voltages.

**Data hold button**  
conveniently located.

**Navigation joystick**  
for easy function selection.

**Rugged rubber enclosure**  
protects against drops and abuse.