

Navigator™ CAT IV Power Quality Clamp Meters

These power quality clamp meters measure power and power factor, total harmonic distortion, individual harmonics, as well as AC/DC voltage, current, capacitance, inrush current analysis, and phase sequence. The low pass filter enables voltage and current measurement on variable frequency drives. The Navigator™ joy stick allows quick selection of the numerous measurement features on the large LCD display. Built for rugged industrial environments with CAT IV 600 V/CAT III 1000 V safety rating.



Rated 5 Out of 5 Stars



- THD (total harmonic distortion) and individual harmonics 1-25
- Power (KW) and power factor (0-1) indicates electrical usage and system efficiency
- True-RMS provides accuracy and dependability
- Low pass filter for variable frequency drives
- Inrush current measurement for motors
- Phase rotation indication
- MAX/MIN and smart data hold
- Peak hold
- Auto flashlight when clamping
- Large backlit display with analog bar graph
- Overmold body absorbs shock – drop-proof to 4 ft (1.2 m)
- Safety Rated CAT IV 600 V

FEATURE	ACD-50NAV	ACD-51NAV	ACDC-52NAV	ACDC-54NAV	BEST ACCURACY
AC Current	100.00 A, 600.0 A			100.00 A, 1000.0 A	+/- (1.5% rdg + 5 LSD)
DC Current	-	-	100.00 A, 600.0 A	100.00 A, 1000.0 A	+/- (1.5% rdg + 5 LSD)
AC Voltage	100.00 V, 1000 V				+/- (1.0% rdg + 5 LSD)
DC Voltage	100.00 V, 1000 V				+/- (0.7% rdg + 2 LSD)
Resistance	1.0000 kΩ, 10.000 kΩ, 100.00 kΩ				+/- (1.0% rdg + 3 LSD)
Frequency	20.0 Hz to 10 kHz				+/- (0.5% rdg + 3 LSD)
Capacitance	4.000 μF, 4000 μF				+/- (1.9% rdg + 8 LSD)
DCμA	-	1000.0 μA	-	-	+/- (1.7% rdg + 2 LSD)
Temperature	-	-50°F → 1832°F (-50°C → 1000°C)	-	-50°F → 1832°F (-50°C → 1000°C)	+/- (1% rdg + 1°C)
THD (Total Harmonics Distortion)	0.1% → 100.0%				+/- (3.0% rdg + 10 LSD)
Individual Harmonics	1 → 25				-
Power	10 kW → 600 kW		10 kW → 1000 kW		±(A, error×V, reading + V, error×A, reading)
Power Factor	-1.00 → 1.00				+/- 3 degrees
Accommodates Conductors	Up to 1.45" (37 mm) in diameter		Up to 1.60" (40 mm) in diameter		

INCLUDED ACCESSORIES: Test leads, user manual, batteries (installed), thermocouple (ACD-51NAV and ACDC-54NAV only)



ACDC-54NAV

Joystick control detail



Recommended Accessories

TL35B
Test Leads
(See Page 56)

ELS2A
AC Line Splitter
(See Page 56)



TOP RATED ★★★★★

"Awesome CAT IV clamp meter with Power Factor"

Great design, easy to use even with voltage gloves. Nothing out there that even comes close. When I'm suited up in arc flash clothing & wearing 1000 volt gloves the ACDC-54NAV provides peace of mind. I feel very confident placing the clamp around a 480 volt energized feeder since the meter/leads/gloves are all 1000 volt rated.

- ACDC-54NAV customer review



ACD-50NAV

ACD-51NAV

ACDC-52NAV

ACDC-54NAV

Navigate Through Any Job

Job Function	Applications	Model
Industrial Electricians	<p>Motor Testing. Use inrush current to test motors capacitance to check start up capacitors and phase rotation to measure three-phase systems</p> <p>Power Quality. Quickly determine the efficiency of an electrical system by measuring power factor and working power measurements. Check for harmful harmonics while you perform daily system checks</p> <p>Transformers. The Navigator™ Clamp is the ideal tool for maintenance and installation of transformers and advanced equipment</p>	<p>ACDC-52NAV ACDC-54NAV</p>
Facilities Maintenance	<p>System Monitoring. Assess and monitor the condition of various systems and advanced equipment such as power quality analyzers</p> <p>Performance Testing. Verify system efficiency and quickly troubleshoot issues to minimize costly downtime by performing load studies, motor testing system checks</p>	ACD-50NAV
HVAC Technicians	<p>System Monitoring. Maintain large, complex HVAC systems in factories, data centers, hospitals and commercial buildings</p> <p>Performance Testing. Best tool for technicians who need the following critical measurements during HVAC system checks and repairs:</p> <ul style="list-style-type: none"> • Capacitance for checking startup capacitors • Micro Amps for the verification of the flame sensors • Temperature for checking cooling/heating performance • Inrush current for verification of the compressor motor • Low-pass filter to allow measurement of the variable frequency drives 	ACD-51NAV