

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. The meters are built for rugged industrial environments with CAT IV 600 V/CAT III 1000 V safety rating.

- **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)



ACDC-54NAV
1000A AC/DC TRMS
Navigator Clamp
Order No. 3729989

	ACD-50NAV	ACD-51NAV	ACDC-52NAV	ACDC-54NAV	BEST ACCURACY
	Order No. 3729945	Order No. 3729950	Order No. 3729961	Order No. 3729989	
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: Test leads, user manual, batteries (installed), thermocouple (ACD-51NAV and ACDC-54NAV only)



★★★★★
Top Rated
"Outstanding performance"

"Best meter I have ever had. Fast measurement. Brilliant display. Rugged. Use mostly for diag. of freq. controlled motors and controllers."

ACDC-54NAV customer reviews

100% of customers who reviewed this product also recommend it.

Navigate Through Any Job

Industrial Electricians	<p>Motor Testing Use inrush current to test motors capacitance, start up capacitors, and phase rotation and 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 performing daily system checks</p> <p>Transformers 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 and 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 • Microamps for 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

Recommended Accessories

See pg. 60-64 for details about accessories.



TL35B
Test Leads
Order No. 3068232



ELS2A
AC Line Splitter
Order No. 3027072