AMPROBE®

Data Sheet



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)

ACD-45PQ 600A Power Quality Clamp

The ACD-45PQ is a compact clamp meter capable of measuring power, energy and power factor on a single and three-phase systems (balanced and unbalanced). Ultra slim jaw design allows the user to clamp around conductors in confined and difficult to reach places. Add on troubleshooting capabilities with an optional PC interface kit.

- TRMS sensing
- Ultra slim jaws accommodate conductors up to 1.02" (26mm) in diameter
- Measurements: AC/DC Voltage up to 600V, AC Current up to 600A, Resistance, Frequency Power: Active (W), Reactive (VAR) and Apparent (VA) Power with dual-display Power Factor readout, KWh Recording
- AutoVA Auto Selection of AC Volts, DC Volts or AC Amps
- 3 phase unbalanced load measurement calculation of the discrete single phase measurements
- Optional PC interface capability (RS-232 KIT2)
- Audible continuity
- Large, easy to read LCD display with backlight
- Auto power off
- Low battery indication
- Peak hold
- Data hold
- Carrying case, test leads, batteries (installed), and manual included
- Voltage overload protection for all functions up to 600V AC/ DC
- Safety CAT III 600V









ACD-45PQ 600A Power Quality Clamp

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General	Specifications	

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Display	Voltage functions: 6000 counts LCD displayPower	
	Ohm & Hz functions: 9999 counts LCD display	
	ACA clamp-on function: 4000 counts LCD display	
Update Rate	Power function: 2 per second nominal Voltage, ACA clamp-on & Ohm functions: 2 per second	
	nominal Hz function: 1 per second nominal	
Polarity	Automatic	
Low Battery	Below approx. 2.4V	
Operating Temperature	0°C to 40°C (32° to 104°F)	
Relative Humidity	Maximum relative humidity 80% for temperature up to 31°C (88°F)	
	decreasing linearly to 50% relative humidity at 40°C (104°F)	
Altitude	Operating below 2000m	
Storage Temperature	-20°C to 60°C (-4° to 140°F), < 80% R.H. (with battery removed)	
Temperature Coefficient	Nominal 0.15 x (specified accuracy)/ °C @(0°C-18°C or 28°C -40°C) /	
	(32° to 64°F or 82° to 104°F),or otherwise specified	
Sensing	True RMS sensing	
Safety	Meets IEC61010-1 2nd Ed., EN61010-1 2nd Ed., UL61010-1 2nd Ed.,	
	CAN/CSA C22.2 No.61010.1-0.92, IEC61010-2-032, EN61010-2-032 & UL61010B-2-032	
Measurement Category	III 600 Volts ac & dc	
E.M.C.	Meets EN61326-1:2006 (EN55022, EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3,	
	EN61000-4-4, , EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11)	
Power Supply	standard 1.5V AAA Size (NEDA 24A or IEC LR03) battery X 2	
Power Consumption	Voltage, ACA, Hz & Power functions: 11mA typical	
	Ohm function: 5.5mA typical	
APO Timing	Idle for 30 minutes	
APO Consumption	4μA typical	
Dimension	L266.7 x W177.8 x H81.28mm (10.5 x 7 x 3.2in)	
Weight	224 gm approx 192 gm approx (0.42 lb)	
Jaw Opening	26mm (1.0 in) max	
Special Features	Backlighted display; AutoVATM (Auto Selection on ACV, DCV or ACA functions);	
•	selectable Power parameters of W, VAR & VA with Total Power Factor in dual-display;	
	kWHr Recording; Display Hold; PEAK-rms HOLD	



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Electrical Specification

Electrical Specificat	1011	
	Range	Accuracy
AC Current	40.00 / 400.0 / 600	(1.0% Rdg + 5 LSD) @ 50 and 60Hz**
AC Voltage	600.0V	+/-(0.5% Rdg + 5 LSD) @ 50 and 60Hz
DC Voltage	600.0V	+/-(0.5% Rdg + 5 LSD)
Resistance	999.9 Ohms	+/-(1.0% Rdg + 6 LSD)
Frequency	5.00Hz to 500.0Hz	+/-(0.5% Rdg +4 LSD)
Active Power (W)	0 to 360.0 kW	+/-(2.0% Rdg + 6 LSD)
		@ Harmonics Fund to 10th & PF 0.1 to 0.99
Reactive Power (VAR)	0 to 360.0 kVAR	+/-(2.0% Rdg + 6 LSD)
		@ Harmonics Fund to 10th & PF > 0.7
Apparent Power (VA)	0 to 360.0 kVA	+/-(2.0% Rdg + 6 LSD) @ Harmonics Fund to 10th
Power Factor	0.10 to 0.99	+/- 3 LSD @ Harmonics Fund to 21th
Optional Accessories		Part Number
PC Interface Kit (PC connection cable with software)		RS-232 KIT2
Software		www.amprobe.com
Replacement Parts (supplied	with product)	Part Number
Test Leads With Set Of Alligator Clips		MTL-90B
(alligator clips are not suppli	•	
Instruction Manual		www.amprobe.com



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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

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