Test Equipment Depot
99 Washington St. Melrose MA, 02176
1.800.517.8431 | 781.665.0780 (Fax)
Visit us at www.TestEquipmentDepot.com

AMPROBE®

Data Sheet

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**

No hassle warranty

No waiting.

No shipping charges.

WARRANTY NO HASSLE PROGRAM

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)

UL N10140 CE

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General Specifications

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

	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 (alligator clips are not supplied with product)	MTL-90B
Instruction Manual	www.amprobe.com

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