



# AMPROBE®

## ACD-51HP, ACD-55HPQ, ACD-56HPQ Power & Power Quality Clamp-ons



*Enjoy the versatility of improved technology. Amprobe offers basic power quality capability combined with TRMS clamp-on ammeter functionality.*

- TRMS Measurements
- AC Current up to 400A
- AC/DC Voltage up to 600V
- Voltage and Current Harmonics up to 25th with THD% (ACD-55 HPQ and ACD- ACD-56 HPQ only)
- Active, Reactive and Apparent Power Single/Three Phase (ACD-51HP and ACD-56 HPQ only)
- Power Factor, Cos Ø Single/Three Phase / Energy (ACD-51HP and ACD- ACD-56 HPQ only)
- Frequency (with test leads and jaw)
- Phase sequence with single wire (patented)
- Autoranging
- Auto Power OFF
- Backlight
- Data Hold
- MAX / MIN / AVG recording
- Fast PEAK function (1ms)
- Low battery indication
- Safety CAT III 600V



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FEATURES	ACD-51HP	ACD-55HPQ	ACD-56HPQ	ACCURACY
AC/DC Voltage		1.6 - 599.9 V		±(1% Rdg + 3 LSD)
AC Peak Voltage @ 1ms response time		10 to 850 V		±(5% Rdg + 10 LSD)
AC Current		0 - 399.9 A		±(1% Rdg + 3 LSD)
AC Peak Current @ 1ms response time		10 to 800A		±(5% Rdg + 10 LSD)
Resistance		0 - 499.9 / 999 / 1999 Ohms		±(1% Rdg + 5 LSD)
Frequency (with test leads and jaw)		40.0 - 399.9 Hz		±(0.5% Rdg + 1 LSD)
Voltage / Current Harmonics		THD, Individual harmonics 1 to 25		Harmonics 1 to 16 @ ±(10.0% rdg + 5 dgt)**
Active, Reactive and Apparent Power	0.00 - 99.99 / 999.9 kW, kVAR, kVA		0.00 - 99.99 / 999.9 kW, kVAR, kVA	±(3.5% Rdg + 3 LSD)
Power Factor, Cos Ø	0.20 - 1.00		0.20 - 1.00	±(2% Rdg + 2 LSD)

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OPTIONAL ACCESSORIES	PART NUMBER
Line Splitter (Energizer)	A47L
3000A AC Flexible Clamp-on Attachment	ACF-3000 AK
Single Input Thermocouple Temperature Attachment	TMA-K
Alligator Clips (For test leads)	VRC-320

REPLACEMENT PARTS <small>(supplied with product)</small>	PART NUMBER
Test lead holder	MTL-CAP
Carrying case	SV-U
Test leads with set of alligator clips <small>(alligator clips are not supplied with product)</small>	MTL-90B

### SPECIFICATIONS

#### Safety Standards

Comply with:	EN 61010
Insulation:	Class 2, double reinforced insulation
Pollution:	Level 2
For inside use, max height:	2000m
Over voltage:	CAT III 600V between terminals and ground

#### General Data

##### Mechanical Characteristics:

Size:	205(L) x 64 (W) x 39(D)mm
Weight (including battery):	about 280g
Jaws opening:	30mm
Max conductor size:	30mm

##### Power Supply:

Battery type:	2 batteries 1.5V AAA.
Low battery indication:	Symbol "" is displayed when battery level is too low.
Battery life:	About 90 hours of continued measurement
Display Characteristics:	4 dgt LCD with maximum reading 9999 units plu decimal point and sign.
Sample rate:	64 samples in 20ms
Conversion mode:	TRMS

#### Environmental Conditions

##### Climatic Conditions:

Reference temperature:	23° ± 5°C
Operating temperature:	5 - 40 °C



Operating humidity:	<80% RH
Storage temperature:	-10 - 60 °C
Storage humidity:	<80% RH

#### EMC:

This apparatus was designed in accordance with EMC standards in force and its compatibility has been tested in accordance EN61326 (1997) + A1 (1998) + A2 (2001).

This product conforms to the prescriptions of the European directive on low voltage 73/23/EEC (LVD) and to EMC directive 89/336/EEC, amended by 93/68/EEC.

#### Accessories

##### Standard accessories:

The accessories contained inside the packaging are the following:

- Instrument
- Rubber holster (MTL-CAP)
- Test leads (MTL-90B)
- Carrying Case (SV-U)
- User's manual

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