



# 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



| 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 <i>(supplied with product)</i>   | PART NUMBER |
|--|-------------|
| Test lead holder   | MTL-CAP     |
| Carrying case  | SV-U        |
| Test leads with set of alligator clips<br><i>(alligator clips are not supplied with product)</i> | 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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