



ACD-10 TRMS-PLUS 600A Clamp-On Multimeter

Amprobe's ACD-10 TRMS-PLUS meter offer thinner jaws over standard clamp meters. Allowing access to tight measurement areas and still accommodating conductors up to 25 mm. Both meters also measure Capacitance and Frequency. Frequency is measured by either jaws or test leads. Very versatile clamp multimeters. True RMS version for noisy measurement environments for a more accurate reading.

- TRMS Measurement
- AC & DC Voltage to 600V
- AC Current to 600A
- Thin Jaws, only 10mm (0.4") thick
- Resistance to 40MΩ
- Continuity Buzzer
- Capacitance to 3000 uF
- Frequency measurement
- In rush current
- Hold & Maximum reading functions
- Accommodates conductors up to 26mm (1.02") in diameter
- Auto ranging
- Auto power off
- Rubber over-molded case

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)



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Data Sheet

General Specifications

| | |
|-----------------------------------|---|
| Display: | 3-3/4 digits 4000 counts LCD display |
| Update Rate: | 3 per second nominal |
| Polarity: | Automatic |
| Operating Temperature: | 0 °C to 40 °C; < 80% RH for temperature up to 31 °C decreasing linearly to 50% RH at 40 °C |
| Altitude: | Operating below 2000m; Indoor use |
| Storage Temperature: | -20 °C to 60 °C, < 80% RH (with battery removed) |
| Temperature Coefficient: | nominal 0.15 x (specified accuracy)/°C @ (0 °C ~ 18 °C or 28 °C ~ 40 °C) |
| Low Battery: | Below approx. 2.4V |
| Power Supply: | 3V coin battery IEC-CR2032 |
| Power Consumption: | 2.8 mA typical except that 3.3 mA typical for ACA function |
| APO Timing: | Idle for 30 minutes |
| APO Consumption: | 5 µA typical |
| Dimension: | 190 x 63 x 32 mm (7.4 x 2.5 x 1.3 in) |
| Weight: | 139 gm approx |
| Jaw opening & Conductor diameter: | max 26 mm |
| Special Features: | 30ms Max Hold; Data Hold; Relative Zero mode |
| Safety: | Meets EN61010-2-032, UL61010B-2-032, IEC61010-1 2nd Ed., EN61010-1 2nd Ed., UL61010-1 2nd Ed. CAT III-600 Volts ac & dc; Pollution degree : 2 |
| EMC: | Conforms to EN61326-1. |

This product complies with requirements of the following European Community Directives: 89/ 336/ EEC (Electromagnetic Compatibility) and 73/ 23/ EEC (Low Voltage) as amended by 93/ 68/ EEC (CE Marking). However, electrical noise or intense electromagnetic fields in the vicinity of the equipment may disturb the measurement circuit. Measuring instruments will also respond to unwanted signals that may be present within the measurement circuit. Users should exercise care and take appropriate precautions to avoid misleading results when making measurements in the presence of electronic interference.

Electrical Specification Accuracy (23 °C ± 5 °C & < 75% R.H.)

| Function | Range | Accuracy |
|----------------------------------|-----------------------|---|
| DC Voltage | | |
| | 400.0 mV | ±(0.3% + 4 digits) |
| | 4.000, 40.00, 400.0 V | ±(0.5% + 3 digits) |
| | 600 V | ±(1.0% + 4 digits) |
| | NMRR: | >50 dB @ 50/60Hz |
| | CMRR: | >120 dB @ DC, 50/60 Hz, Rs=1 kΩ |
| | Input Impedance: | 10 MΩ, 30 pF nominal (1000 MΩ for 400.0 mV range) |
| | Transient protection: | 6.5 kV (1.2/50 µs surge) |
| AC Voltage (50Hz ~ 500Hz) | | |
| | 4.000, 40.00, 400.0 V | ±(1.5% + 5 digits) |
| | 600 V | ±(2.0% + 5 digits) |
| | CMRR: | >60dB @ DC to 60 Hz, Rs=1 kΩ |
| | Maximum Crest Factor: | < 1.75 : 1 at full scale & < 3.5 : 1 at half scale limited to fundamental and harmonics, that fall within the meter specified AC bandwidth for non-sinusoidal waveforms |
| | Input Impedance: | 10 MΩ, 30 pF nominal |
| | Transient protection: | 6.5 kV (1.2/50µs surge) |
| | ACD-10 TRMS Plus: | True RMS sensing - 5 % to 100 % of range |



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Electrical Specification Accuracy (23 °C ± 5 °C & < 75% R.H.), cont.

| Function | Range | Accuracy | |
|---|---|--|-------------------|
| AC Current (Clamp-on 50Hz / 60Hz) | | | |
| | Range | Accuracy ^{1) 2) 3)} | |
| | 40.00, 400.0, 600 A | ±(1.5% + 8 digits) | |
| | Overload Protections: | ACA Clamp-on jaws : 600 A rms continuous | |
| | ACD-10 TRMS Plus: | True RMS sensing - 10 % to 100 % of range | |
| 1) Max Induced error from adjacent current carrying conductor: 0.05 A | | | |
| 2) Specified accuracy is from 1% to 100% of range and for measurements made at the jaw center. When the conductor is not positioned at the jaw center, position errors introduced are: Add 2% to specified accuracy for measurements made BEYOND jaw marking lines (toward jaw opening) | | | |
| 3) Add 8 digits to specified accuracy @ reading < 10% of range | | | |
| Resistance | | | |
| | 400.0 Ω | ±(0.8% + 8 digits) | |
| | 4.000, 40.00, 400.0 kΩ | ±(0.6% + 4 digits) | |
| | 4.000 MΩ | ±(1.0% + 4 digits) | |
| | 40.00 MΩ | ±(2.0% + 4 digits) | |
| | Open Circuit Voltage : | 0.4 VDC typical | |
| | Transient protection : | 6.5 kV (1.2/50µs surge) | |
| Frequency | | | |
| Function | Sensitivity (Sine RMS) | Range | Accuracy |
| 400.0 mVac | 350mV 1 | 0 Hz ~ 2 kHz | ±(0.5%+4 digits) |
| 4.000 Vac | 1V | 5 Hz ~ 5 kHz | ±(0.5%+4 digits) |
| 4.000, 40.00 Vac | 32V | 5 Hz ~ 100 kHz | ±(0.5%+4 digits) |
| 400.0 Vac | 90V | 5 Hz ~ 10 kHz | ±(0.5%+4 digits) |
| 600 Vac | 500V | 5 Hz ~ 5 kHz | ±(0.5%+4 digits) |
| 400.0 Aac | 60A | 40 Hz ~ 400 Hz | ±(0.5%+4 digits) |
| Display counts: | | 5000 | |
| Resolution: | | 0.001Hz | |
| Overload Protection : | | ACA Clamp-on jaws : AC 600A rms continuous | |
| Transient protection : | | VAC input jacks : 6.5kV (1.2/50µs surge) | |
| Capacitance | | | |
| | Range ¹⁾ | Accuracy ^{2) 3)} | |
| | 500.0nF, 5.000µF, 50.00µF, 500.0µF, 3000µF | ±(3.5% + 6 digits) | |
| 1) Additional 50.00nF range accuracy is not specified | | | |
| 2) Accuracies with film capacitor or better | | | |
| 3) Specified with battery voltage above 2.8V (approximately half full battery). Accuracy decreases gradually to 12% at low battery warning voltage of approximately 2.4V | | | |
| Transient protection: | 6.5 kV (1.2/50 µs surge) | | |
| Audible Continuity Tester | | | |
| Audible indication: | between 10 Ω and 120 Ω. | | |
| Transient protection: | 6.5 kV (1.2/50 µs surge) | | |
| Diode Tester / Open Circuit Voltage Test Current | | | |
| (Typical) | < 1.6 VDC @ 0.25 mA | | |
| Transient protection: | 6.5 kV (1.2/50 µs surge) | | |
| Max Hold* (where applicable) | | | |
| Specified accuracy ± 50 digits for changes > 25 ms in duration | | | |

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Included Accessories

Test leads, battery installed, soft carrying pouch, and users manual



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