



# 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)

## SIARBAN ()2 NO HASSLE MOGRAN



Wide range of measuring features built into one, professional meter. The TRMS version with backlight display, improves performance and reliability.

- True RMS
- Backlight
- Measurements: AC/DC Voltage up to 600V, AC Current up to 2000A Resistance, Frequency and Capacitance
- Non-contact Voltage Level Detection
- Audible continuity
- Auto-check feature automatically selects DCV, ACV or Resistance (Ω)

- Auto power off
- Low battery indication
- Data hold
- Large, easy to read LCD display

Data Sheet

- Accommodates conductors up to 45mm (1.77") in diameter
- Carrying case, test leads, batteries (installed) and manual included
- Voltage overload protection for all functions up to 600V AC/DC



**Amprobe® Test Tools** 

### www.Amprobe.com



## ACD-15 TRMS-PRO 2000A Digital Clamp-on Multimeters

### **Electrical Specifications**

Accuracy is  $\pm$ (% reading digits + number of digits) or otherwise specified, at 23°C  $\pm$ 5°C & less than 75% R.H. True RMS Model ACD-15 TRMS-PRO ACV & ACA clamp-on accuracies are specified from 5% to 100% of range or otherwise specified. Maximum Crest Factor are as specified below, and with frequency spectrums, besides fundamentals, fall within the meter specified AC bandwidth for non-sinusoidal waveforms.

| Function                             | Range                                                                                                                                                                           | Accuracy                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| DC Voltage                           |                                                                                                                                                                                 |                                        |
|                                      | 6.000V                                                                                                                                                                          | 0.5% + 3d                              |
|                                      | 60.00V                                                                                                                                                                          | 1.0% + 5d                              |
|                                      | 600.0V                                                                                                                                                                          | 2.0% + 5d                              |
| NMRR :                               | >30dB @ 50/60Hz                                                                                                                                                                 |                                        |
| CMRR :                               | >100dB @ DC, 50/60Hz, Rs=1kΩ                                                                                                                                                    |                                        |
| Hi-Z DCV Input Impedance:            | 5MΩ, 90pF nominal                                                                                                                                                               |                                        |
| AutoCheck™ Lo-Z DCV input impedance: | : Initially 1.6k $\Omega$ , 90pF nominal; Impedance increases significantly as display voltage                                                                                  |                                        |
|                                      | increases from 50V (typical). Typical impedances 15k $\Omega$ @ 100V; 100k $\Omega$ @ 300V; 210k $\Omega$ @ 600V                                                                | vs display voltages for reference are: |
| AutoCheck™ DCV Threshold:            | > +1.5VDC or < -1.0VDC nominal                                                                                                                                                  |                                        |
| AC Voltage                           |                                                                                                                                                                                 |                                        |
| 50Hz / 60Hz                          | 6.000V, 60.00V                                                                                                                                                                  | 1.5% + 5d                              |
|                                      | 600.0V                                                                                                                                                                          | 2.0% + 5d                              |
| 50Hz ~ 500Hz                         | 6.000V, 60.00V                                                                                                                                                                  | 2.0% + 5d                              |
|                                      | 600.0V                                                                                                                                                                          | 2.5% + 5d                              |
| CMRR:                                | >60dB @ DC to 60Hz, Rs=1k $\Omega$                                                                                                                                              |                                        |
| Hi-Z ACV Input Impedance:            | 5MΩ, 90pF nominal                                                                                                                                                               |                                        |
| AutoCheck™ Lo-Z ACV input impedance: | Initially $1.6k\Omega$ , 90pF nominal; Impedance increases<br>increases from 50V (typical). Typical impedances<br>$5k\Omega @ 100V$ ; $100k\Omega @ 300V$ ; $210k\Omega @ 600V$ |                                        |
| AutoCheck™ ACV Threshold:            | > 2VAC (50/60Hz) nominal. True RMS model ACD-15 TRMS-PRO Crest < 1.6 : 1 at full sca & < 3.3 : 1 at half scale                                                                  |                                        |
| Resistance                           |                                                                                                                                                                                 |                                        |
|                                      | 6.000kΩ <sup>2)</sup>                                                                                                                                                           | <b>1.2% + 6d</b> <sup>1) 3)</sup>      |
|                                      | 60.00kΩ, 600.0kΩ                                                                                                                                                                | 1.0% + 4d                              |
|                                      | 6.000MΩ                                                                                                                                                                         | 2.0% + 4d                              |
| Open Circuit Voltage: 0.4VDC typical | <sup>1)</sup> Cool down interval 2 minutes after over 50V measurements in Auto-V $\Omega$ position<br><sup>2)</sup> Beeper on while reading < 0.025k $\Omega$                   |                                        |
|                                      | <sup>3)</sup> Add 40d to specified accuracy while reading is                                                                                                                    |                                        |
| 600 $\Omega$ with Continuity Beeper  | 600.0Ω                                                                                                                                                                          | 2.0%+8d <sup>1)</sup>                  |
| Continuity Beeper Response:          | < 100µs                                                                                                                                                                         |                                        |
| Open Circuit Voltage:                | 0.4VDC typical                                                                                                                                                                  |                                        |
| Audible Threshold:                   | between $10\Omega$ and $300\Omega$ 1) Add 40d to specified accuracy while reading is below 20% of range                                                                         |                                        |
| Frequency                            |                                                                                                                                                                                 |                                        |
| Range                                | Sensitivity (Sine RMS)                                                                                                                                                          | Voltage Range                          |
| 10Hz ~ 30kHz                         | 4V                                                                                                                                                                              | 6.000V                                 |
| 0Hz ~ 1kHz                           | 30V 1                                                                                                                                                                           | 60.00V                                 |
| 10Hz ~ 1kHz                          | 60V                                                                                                                                                                             | 600.0V                                 |
| Accuracy:                            | 0.5%+4d                                                                                                                                                                         |                                        |
| Max display:                         | 9999 counts                                                                                                                                                                     |                                        |



## ACD-15 TRMS-PRO 2000A Digital Clamp-on Multimeters

**Data Sheet** 

| Function                                          | Range                                                                                            | Accuracy                                                  |  |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--|
| Diode Tester                                      |                                                                                                  |                                                           |  |
| Open Circuit Voltage                              | Test Current                                                                                     |                                                           |  |
| < 1.6 VDC                                         | 0.4mA (typical)                                                                                  |                                                           |  |
| Audible Threshold:                                | between 0.015V & 0.080V                                                                          |                                                           |  |
| Capacitance                                       |                                                                                                  |                                                           |  |
|                                                   | 100.0nF <sup>2)</sup> , 1000nF,                                                                  | 3.5%+5d <sup>1) 3)</sup>                                  |  |
|                                                   | 10.00µF, 100.0µF, 2000µF                                                                         |                                                           |  |
| 1) Accuracies with film capa                      | acitor or better                                                                                 |                                                           |  |
| 2) Accuracy below 50nF is r                       | not specified                                                                                    |                                                           |  |
| <ol> <li>Specified with battery volume</li> </ol> | oltage above 2.8V (approxmately half                                                             | full battery). Accuracy decreases gradually to 12% at low |  |
| battery warning voltage                           | of approximately 2.4V                                                                            |                                                           |  |
| Non-Contact EF-Detection                          |                                                                                                  |                                                           |  |
| Typical Voltage                                   | Bar Graph Indication                                                                             |                                                           |  |
| 15V TO 85V                                        | -                                                                                                |                                                           |  |
| 40V TO 130V                                       |                                                                                                  |                                                           |  |
| 60V TO 210V                                       |                                                                                                  |                                                           |  |
| 90V TO 300V                                       |                                                                                                  |                                                           |  |
| ABOVE 120V                                        |                                                                                                  |                                                           |  |
| Indication:                                       | Bar graph segments & audible beep tones proportional to the field strength                       |                                                           |  |
| Detection Frequency:                              | 50/60Hz                                                                                          |                                                           |  |
| Detection Antenna:                                | Top side of the stationary jaw                                                                   |                                                           |  |
| Probe-Contact EF-Detection:                       | For more precise indication of live wires, use the Red (+) probe for direct contact measurements |                                                           |  |
| AC Current (Clamp-on)                             | ÷                                                                                                | ·                                                         |  |
| 50Hz / 60Hz                                       | 400.0A, 2000A                                                                                    | 1.5% + 5d <sup>1) 2) 3)</sup>                             |  |
| True RMS model ACD-15 TRMS                        | SPRO Crest Factor: < 2.0 : 1 at full scal                                                        | e & < 4.0 : 1 at half scale                               |  |
| <sup>1)</sup> Add 8d to specified accuracy w      | hile reading is below 10% of range                                                               |                                                           |  |
| , , ,                                             | rrent-carrying conductor: $< 0.06 \text{\AA}/\text{\AA}$                                         |                                                           |  |

<sup>2)</sup> Induced error from adjacent current-carrying conductor: < 0.06A/A

<sup>3)</sup> Specified accuracy is for measurements made at the jaw center. When the conductor is not positioned at the jaw center, position errors introduced are: Add 1% to specified accuracy for measurements made within jaw marking lines (away from jaw opening) Add 4% to specified accuracy for measurements made beyond jaw marking lines (toward jaws opening)



## ACD-15 TRMS-PRO 2000A Digital Clamp-on Multimeters

### **General Specifications**

| Display:                          | 3-5/6 digits 6000 counts LCD display                                                                                              |  |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--|
| Update Rate:                      | 5 per second nominal                                                                                                              |  |
| Polarity:                         | Automatic                                                                                                                         |  |
| Low Battery:                      | Below approx. 2.4V                                                                                                                |  |
| Operating Temperature:            | 0°C to 40°C                                                                                                                       |  |
| Relative Humidity:                | Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C                     |  |
| Altitude:                         | Operating below 2000m                                                                                                             |  |
| Storage Temperature:              | -20°C to 60°C, < 80% R.H. (with battery removed)                                                                                  |  |
| Temperature Coefficient:          | nominal 0.15 x (specified accuracy)/°C @(0°C -18°C or 28°C -40°C), or otherwise specified                                         |  |
| Sensing:                          | Average sensing                                                                                                                   |  |
| Safety:                           | Meets EN61010-1:2001; IEC61010-2-032(1994), EN61010-2-032(1995), UL3111-2-032(1999).<br>Category III 600 Volts AC & DC            |  |
| Transient Protection:             | 6.5kV (1.2/50µs surge) for all models                                                                                             |  |
| Pollution Degree:                 | 2                                                                                                                                 |  |
| E.M.C.:                           | Meets EN61326-1                                                                                                                   |  |
| In an RF field of 3V/m:           | Capacitance function is not specified. Total Accuracy = Specified Accuracy + 45 digits<br>Performance above 3V/m is not specified |  |
| Overload Protections:             | ACA Clamp-on jaws: AC 2000A rms continuous + & COM terminals (all functions): 600VDC/VAC RMS                                      |  |
| Power Supply:                     | standard 1.5V AAA Size (NEDA 24A or IEC LR03) battery X 2                                                                         |  |
| Power Consumption:                | 2.8mA typical                                                                                                                     |  |
| APO Timing:                       | Idle for 3 minutes                                                                                                                |  |
| APO Consumption:                  | 40µA typical on all model functions voltage & current functions                                                                   |  |
| Dimension:                        | L224mm X W78mm X H40mm                                                                                                            |  |
| Weight:                           | 220 gm approx                                                                                                                     |  |
| Jaw opening & Conductor Diameter: | 45mm max                                                                                                                          |  |
|                                   |                                                                                                                                   |  |

#### **Included Accessories**

Test leads, carrying case and users manual

#### **Optional Accessories**

| ELS2A      | Line splitter (Energizer)                         |
|------------|---------------------------------------------------|
| ACF-3000AK | 3000A AC Flexible Clamp-On Attachment             |
| TMA-K      | Temperature Adapter                               |
| TL36A      | Industry Test Leads with Threaded Alligator Clips |

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