

| SPECIFICATIONS: (All at 23°C±5°C, ≤ 80% R.H.) |                     | APPA 31                                                           | APPA 32                                                     | APPA 30T                                                     | APPA 39T                                                     | APPA 30R                                                      | APPA 33/33RII                                                 | APPA 36RIII                                                     | APPA 39MR                                                         |                                                                   |
|-----------------------------------------------|---------------------|-------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| ACV:                                          | Ranges              |                                                                   |                                                             |                                                              |                                                              | 400mV-600V                                                    | 600V                                                          | 600V                                                            | 400V-600V                                                         |                                                                   |
|                                               | Resolution          |                                                                   |                                                             |                                                              |                                                              | 0.1mV                                                         | 0.1V                                                          | 1mV                                                             | 0.1V                                                              |                                                                   |
|                                               | Accuracy            |                                                                   |                                                             |                                                              |                                                              | ±(1.5%+5d)<br>at 50Hz-500Hz<br>10MΩ / <100pF                  | ±(1.5%+5d)<br>at 40Hz-500Hz<br>10MΩ / <100pF                  | ±(1.5%+5d)<br>at 40Hz-400Hz                                     | ±(1.5%+5d)<br>at 50Hz-500Hz<br>1MΩ / <100pF                       |                                                                   |
|                                               | Input Impedance     |                                                                   |                                                             |                                                              |                                                              | 600V rms                                                      | 600V rms                                                      | 600V rms                                                        | 850V rms                                                          |                                                                   |
| DCV:                                          | Overload Protection |                                                                   |                                                             |                                                              |                                                              |                                                               |                                                               |                                                                 |                                                                   |                                                                   |
|                                               | Conversion Type     |                                                                   |                                                             |                                                              |                                                              | True-RMS                                                      | RMS/True-RMS                                                  | True-RMS                                                        | True-RMS                                                          |                                                                   |
|                                               | Ranges              |                                                                   |                                                             |                                                              |                                                              | 400mV-600V                                                    | 600V                                                          | 600V                                                            | 400V-1000V                                                        |                                                                   |
|                                               | Resolution          |                                                                   |                                                             |                                                              |                                                              | 0.1mV                                                         | 1mV                                                           | 1mV                                                             | 0.1V                                                              |                                                                   |
|                                               | Accuracy            |                                                                   |                                                             |                                                              |                                                              | ±(0.5%+2d)                                                    |                                                               | ±(0.7%+2d)                                                      | ±(0.7%+2d)                                                        |                                                                   |
|                                               | Input Impedance     |                                                                   |                                                             |                                                              |                                                              | 10MΩ                                                          | 10MΩ                                                          | 10MΩ                                                            | 1MΩ                                                               |                                                                   |
|                                               | Overload Protection |                                                                   |                                                             |                                                              |                                                              | 600V rms                                                      | 600V rms                                                      | 600V rms                                                        | 850V rms                                                          |                                                                   |
|                                               | Ranges              | 4000A                                                             | 100A-600A                                                   | 40A-300A                                                     | 100A-1000A                                                   | 40A-300A                                                      | 200A-600A                                                     | 60A-800A                                                        | 400A-600A-1000A                                                   |                                                                   |
| ACA:                                          | Resolution          | 1mV/1A                                                            | 10mV/1A                                                     | 10mV/1A                                                      | 10mV/1A                                                      | 0.01A                                                         | 0.1A                                                          | 0.01A                                                           | 0.1A                                                              |                                                                   |
|                                               | Accuracy            | 50Hz-60Hz<br>±(1.9%+0.5A),<br>0A-350A<br>±(0.2%+1A),<br>350A-400A | 45Hz-65Hz<br>±(2%+2A),<br>0A-100A<br>±(2%+2A),<br>100A-400A | 40Hz-400Hz<br>±(1%+0.1A),<br>0A-40A<br>±(1%+1A),<br>40A-200A | 40Hz-400Hz<br>±(1%+0.1A),<br>0A-40A<br>±(1%+1A),<br>40A-200A | 40Hz-400Hz<br>±(1.9%+2A),<br>0A-40A<br>±(1.9%+7A),<br>4A-200A | 40Hz-1KHz<br>±(1.9%+5d),<br>0A-200A<br>±(1.5%+5d),<br>0A-400A | 50Hz-60Hz<br>±(1.9%+5d),<br>0A-200A<br>±(1.5%+5d),<br>400A-600A | 40Hz-400Hz<br>±(1.9%+5d),<br>0A-600A<br>±(2.5%+5d),<br>600A-1000A | 40Hz-400Hz<br>±(1.5%+5d),<br>0A-600A<br>±(2.5%+5d),<br>600A-1000A |
|                                               | Conversion Type     |                                                                   |                                                             |                                                              |                                                              | True-RMS                                                      | RMS/True-RMS                                                  | True-RMS                                                        | True-RMS                                                          |                                                                   |
|                                               | Ranges              |                                                                   |                                                             |                                                              |                                                              | 600V rms                                                      | 600V rms                                                      | 600V rms                                                        | 100V rms                                                          |                                                                   |
| Frequency:                                    | Resolution          |                                                                   |                                                             |                                                              |                                                              | 0.01A                                                         |                                                               | 50KHz                                                           | 10KHz                                                             |                                                                   |
|                                               | Accuracy            |                                                                   |                                                             |                                                              |                                                              | ±(1.5%+2d)                                                    | ±(1.5%+2d)                                                    | ±(1.5%+2d)                                                      | ±(0.5%+3d)                                                        |                                                                   |
|                                               | DCA:                |                                                                   |                                                             |                                                              |                                                              |                                                               |                                                               |                                                                 |                                                                   |                                                                   |
|                                               | Ranges              | 100A, 600A                                                        | 40A, 300A                                                   | 100A, 1000A                                                  | 40A, 300A                                                    |                                                               |                                                               | 60A, 800A                                                       | 400A, 600A, 1000A                                                 |                                                                   |
|                                               | Resolution          | 10mV/1A, 1mV/A                                                    | 10mV/1A, 1mV/A                                              | 10mV/1A, 1mV/A                                               | 10mV/1A, 1mV/A                                               | 0.01A                                                         |                                                               | 0.01A                                                           | 0.1A                                                              |                                                                   |
|                                               | Accuracy            | ±(2%+2A),<br>0A-100A                                              | ±(2%+2A),<br>0A-100A                                        | ±(1%+0.1A),<br>0A-40A                                        | ±(0.9%+2A),<br>0A-100A                                       | ±(1.5%+2d),<br>0A-200A                                        | ±(1.9%+5d),<br>0A-200A                                        | ±(1.9%+5d),<br>0A-200A                                          | ±(1.9%+5d),<br>0A-200A                                            |                                                                   |
|                                               | Conversion Type     |                                                                   |                                                             |                                                              |                                                              | True-RMS                                                      | RMS/True-RMS                                                  | True-RMS                                                        | True-RMS                                                          |                                                                   |
|                                               | Ranges              | 100A-400A                                                         | 100A-400A                                                   | 40A-200A                                                     | 100A-400A                                                    | 200A-300A                                                     |                                                               |                                                                 | 600A-1000A                                                        |                                                                   |
| OHM:                                          | Resolution          | ±(3%+2A),<br>400A-600A                                            | ±(1.9%+2A),<br>400A-600A                                    | ±(2.9%+5A),<br>400A-600A                                     | ±(2.9%+5A),<br>400A-600A                                     |                                                               |                                                               |                                                                 |                                                                   |                                                                   |
|                                               | Accuracy            |                                                                   |                                                             |                                                              |                                                              | ±(1.2%+3d),<br>4KΩ-4MΩ                                        | ±(1.5%+2d)                                                    | ±(0.9%+5d),<br>0Ω-600Ω                                          | ±(1%+2d)                                                          |                                                                   |
|                                               | Overload Protection |                                                                   |                                                             |                                                              |                                                              | 600V rms                                                      | 600V rms                                                      | 600V rms                                                        | 600V rms                                                          |                                                                   |
|                                               | Threshold           |                                                                   |                                                             |                                                              |                                                              | < 50Ω approx.                                                 | < 50Ω approx.                                                 | < 20Ω approx.                                                   | < 100Ω approx.                                                    |                                                                   |
| Continuity Test:                              | Indicator           |                                                                   |                                                             |                                                              |                                                              | 2KHz tone buzzer                                              | 2KHz tone buzzer                                              | 2.7KHz tone buzzer                                              | 2KHz tone buzzer                                                  |                                                                   |
|                                               | Dioda Test:         |                                                                   |                                                             |                                                              |                                                              |                                                               |                                                               |                                                                 |                                                                   |                                                                   |
|                                               | Load Impedance:     | AC and DC                                                         |                                                             |                                                              |                                                              |                                                               |                                                               |                                                                 |                                                                   |                                                                   |
|                                               | Output Error        |                                                                   |                                                             |                                                              |                                                              |                                                               |                                                               |                                                                 |                                                                   |                                                                   |
| Position Error                                | Resolution          |                                                                   |                                                             |                                                              |                                                              | 400Ω-40MΩ                                                     | 2KΩ                                                           | 600Ω-40MΩ                                                       | 4KΩ-40KΩ                                                          |                                                                   |
|                                               | Accuracy            |                                                                   |                                                             |                                                              |                                                              | 0.                                                            |                                                               |                                                                 |                                                                   |                                                                   |

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**APPA®**  
Advanced Instrument Technology Made Easy

- AC 400A capability
- 1.9% basic accuracy
- Non-intrusive transducing
- Up to 29mm diameter conductor
- 5 feet drop proof
- Coiled cable output plugs
- Ergonomically designed jaw and trigger
- Hand guard designed
- Carrying case included
- CAT II 600V Safety Standard

- AC/DC 600A capability
- Dual Hall sensor
- 2.0% basic DCA/ACA accuracy
- Non-intrusive transducing
- Up to 34mm dia conductor
- Up to 20x40mm busbar
- DCA zero adjust knob
- Power on indicating
- Battery low indicator
- 5 feet drop proof
- Coiled cable output plugs
- Hand Guard protection
- Carrying case included
- CAT II 600V Safety Standard

- 4000 count digital display
- Autorangeing
- Dual Hall sensor
- Nickel-Steel alloy jaw mechanism**
- AC/DC 300 Amps capability
- AC/DC 600 Volts capability
- 0.5% basic DCV accuracy
- 1.5% basic ACV accuracy
- 0.9% basic OHM accuracy
- Continuity Beeper
- 10mA resolution
- Auto-Zeroing key for DCA
- Data hold function
- MAX hold function
- Auto power off selectable
- 600V protection in every range
- Up to 22mm dia (350 MCM) conductor
- 4 feet drop proof
- Insulated input jacks
- Hand guard designed
- Deluxe carrying case
- CAT II @ 600V Safety Standard

6000 Count digital display  
 Large white LED backlight display  
 Autorangeing  
 AC/DC 600A Capability  
 AC/DC 600V Capability  
 10mA resolution  
**True RMS reading on ACA/ACV**  
 Frequency Counter on ACA/ACV  
 40M Ohms Resistance capability  
 Diode Test  
 Smart Data Hold  
 Zeroing Key  
 Max Hold  
 Auto Power Off ( can be disabled )  
 Up to 36mm dia. Conductor  
 4 feet Drop Proof  
 Hand Guard & Stream Line Design  
 Convenient Battery Door  
 Deluxe carrying case  
 CAT III 600V Safety Standard

- 4000 count digital display
- AC/DC 1000A in specification, and 2000A overload protection
- AC 600V, DC 1000V capability
- Autoringing
- Dual Hall sensor
- Nickel-Steel alloy jaw mechanism**
- 0.7% basic DCV accuracy
- 1.2% basic ACV accuracy
- 1.0% basic OHM accuracy
- 0.5% basic Hz accuracy
- CONTINUITY beeper
- True RMS reading in ACV/ACD**
- Frequency measurement through input jack or clamp-on
- PEAK HOLD function**
- Auto-Zero key for DCA
- Auto Power Off
- Up to 51mm dia. (2") conductor
- Up to 24 x 60mm busbar
- 4 feet drop proof
- Insulated input jacks
- Hand guard designed
- CE marking as standard
- DALU T 1000V Safety Standard