

# APPA 70 Series Multimeter

## Smaller but much Nicer and Rugged



### DAY & NIGHT

APPA 73 & 79 Digital Multimeter have a LED backlit display that turns ON/OFF at the touch of a button, also automatically goes off to save battery life.



### OPTICAL RS-232 INTERFACE

APPA 73 & 79 have RS-232 optical interface to connect to PC for data acquisition and analysis



### NEW SLIM DESIGN

Ergonomically designed slim shape with one hand operated knob and buttons. Just fit the palm of your hand your needs.



### EXTRA PROTECTION

Every 70 series meter is supplied with a protective holster that includes a built-in tilt stand, a nail hook, and convenient test lead storage. This holster provides an extra degree of protection and convenience for your meter



### BATTERY EASY TO REPLACE

Unscrew only two screw to remove battery door for battery replacement, designed for user's convenience without opening the bottom case.

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## APPA 71

- 6000 count digital display
- Large scale display
- 0.5% basic DCV accuracy
- Data Hold
- Min/ Max function
- Frequency Counter
- Capacitance Measurement
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster with tilt stand
- CAT. IV 600V/CAT. III 1000V Safety standard



## APPA 72

- 6000 count digital display
- Large scale display
- True RMS reading on AC mode
- 0.5% basic DCV accuracy
- Data Hold
- Min/ Max function
- Frequency Counter
- Capacitance Measurement
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster with tilt stand
- CAT. IV 600V/CAT. III 1000V Safety standard

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## APPA 73

- 6000 count digital display
- Backlit, Large scale display
- True RMS reading on AC mode
- 0.5% basic DCV accuracy
- Data Hold
- Min/ Max function
- Frequency Counter
- Capacitance Measurement
- Optical RS-232 interface
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster with tilt stand
- CAT. IV 600V/CAT. III 1000V Safety standard



## APPA 75

- 4000 count digital display
- 82 segments analog bar graph
- Large scale display
- 0.5% basic DCV accuracy
- Data Hold
- Min/ Max function
- Frequency Counter
- Capacitance Measurement
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster with tilt stand
- CAT. IV 600V/CAT. III 1000V Safety standard

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### APPA 77

- 4000 count digital display
- 82 segments analog bar graph
- Large scale display
- True RMS reading on AC mode
- 0.5% basic DCV accuracy
- Data Hold
- Min/ Max function
- Frequency Counter
- Capacitance Measurement
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster with tilt stand
- CAT. IV 600V/CAT. III 1000V Safety standard



### APPA 79

- 4000 count digital display
- 82 segments analog bar graph
- Backlit, Large scale display
- True RMS reading on AC mode
- 0.5% basic DCV accuracy
- Data Hold
- Min/ Max function
- Frequency Counter
- Capacitance Measurement
- Optical RS-232 interface
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster with tilt stand
- CAT. IV 600V/CAT. III 1000V Safety standard

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## APPA 70 Series Multimeter

| FEATURES :                             | APPA 71       | APPA 72       | APPA 73       | APPA 75       | APPA 77       | APPA 79       |
|----------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Digital display                        | 6000 count    | 6000 count    | 6000 count    | 4000 count    | 4000 count    | 4000 count    |
| Analog bar graph display               |               |               |               | 82 segments   | 82 segments   | 82 segments   |
| Range selection                        | Auto / Manual | Auto / Manual | Auto / Manual | Auto / Manual | Auto / Manual | Auto / Manual |
| True RMS measuring                     |               | ●             | ●             |               | ●             | ●             |
| Data hold                              | ●             | ●             | ●             | ●             | ●             | ●             |
| Min Max function                       | ●             | ●             | ●             | ●             | ●             | ●             |
| Frequency counter                      | ●             | ●             | ●             | ●             | ●             | ●             |
| Capacitance measurement                | ●             | ●             | ●             | ●             | ●             | ●             |
| RS-232 interface                       |               | ●             |               |               |               | ●             |
| Audible continuity and Diode test      | ●             | ●             | ●             | ●             | ●             | ●             |
| Backlight                              |               | ●             |               |               |               | ●             |
| Open communication protocol            |               | ●             |               |               |               | ●             |
| Automatic power shut off               | ●             | ●             | ●             | ●             | ●             | ●             |
| Shock proof from 4 feet drops          | ●             | ●             | ●             | ●             | ●             | ●             |
| Standard full-sleeve safety test leads | ●             | ●             | ●             | ●             | ●             | ●             |
| Protective holster                     | ●             | ●             | ●             | ●             | ●             | ●             |

| GENERAL :                                                                                         | APPA 71                                             | APPA 72                       | APPA 73                       | APPA 75                       | APPA 77                       | APPA 79                       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Sampling Rate: 1.5 times/sec                                                                      | ●                                                   | ●                             | ●                             | 2 times/sec                   | 2 times/sec                   | 2 times/sec                   |
| Overload Indication: "OL" or " -OL"                                                               | ●                                                   | ●                             | ●                             | ●                             | ●                             | ●                             |
| Low Battery Indication                                                                            | ⎓                                                   | ⎓                             | ⎓                             | ⎓                             | ⎓                             | ⎓                             |
| Auto Power Off: Approx.                                                                           | 10 Minutes                                          | 10 Minutes                    | 10 Minutes                    | 30 Minutes                    | 30 Minutes                    | 30 Minutes                    |
| Operating Temperature:<br>- 0°C ~ 50°C, < 80% RH                                                  | ●                                                   | ●                             | ●                             | ●                             | ●                             | ●                             |
| Storage Temperature:<br>- 20°C ~ 60°C                                                             | ●                                                   | ●                             | ●                             | ●                             | ●                             | ●                             |
| Temperature Coefficient:<br>0.15(Spec. Acc)/°C, <18°C or >28°C                                    | ●                                                   | ●                             | ●                             | ●                             | ●                             | ●                             |
| Safety: IEC 61010 and designed to meet UL3111 specifications                                      | CAT. IV. 600V, CAT. III 1000V                       | CAT. IV. 600V, CAT. III 1000V | CAT. IV. 600V, CAT. III 1000V | CAT. IV. 600V, CAT. III 1000V | CAT. IV. 600V, CAT. III 1000V | CAT. IV. 600V, CAT. III 1000V |
| Power Requirement:<br>Single 9V battery (NEDA 1604 or IEC 6F22)                                   |                                                     | ●                             | ●                             |                               | ●                             | ●                             |
| IEC LR03, AM4 or AAA size 1.5Vx2                                                                  | ●                                                   |                               |                               | ●                             |                               |                               |
| Battery Life:<br>In hours (Alkaline battery)                                                      | 300                                                 | 300                           | 300                           | 300                           | 300                           | 300                           |
| Size:                                                                                             | 76 mm (W) x 158 mm (L) x 38 mm (H), Without holster |                               |                               |                               |                               |                               |
|                                                                                                   | 82 mm (W) x 164 mm (L) x 44 mm (H), Wit holster     |                               |                               |                               |                               |                               |
| Weight: In grams (with holster)                                                                   | 400                                                 | 400                           | 400                           | 400                           | 400                           | 400                           |
| Included with instrument:<br>Test Leads, Protective holster<br>ZnC battery (installed) and manual | ●                                                   | ●                             | ●                             | ●                             | ●                             | ●                             |

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| SPECIFICATIONS:<br>(All at 23°C 5°C, < 80% R.H.) |                         | APPA 71                                                                      | APPA 72                             | APPA 73                                   | APPA 75                                                                    | APPA 77                             | APPA 79               |
|--------------------------------------------------|-------------------------|------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------|----------------------------------------------------------------------------|-------------------------------------|-----------------------|
| DCV:                                             | Ranges                  | 600.0mV ~ 1000V                                                              | 600.0mV ~ 1000V                     | 600.0mV ~ 1000V                           | 400.0mV ~ 1000V                                                            | 400.0mV ~ 1000V                     | 400.0mV ~ 1000V       |
|                                                  | Resolution              | 0.1mV                                                                        | 0.1mV                               | 0.1mV                                     | 0.1mV                                                                      | 0.1mV                               | 0.1mV                 |
|                                                  | Basic Accuracy          | ± (0.5%+ 2d)                                                                 | ± (0.5%+ 2d)                        | ± (0.5%+ 2d)                              | ± (0.5%+ 2d)                                                               | ± (0.5%+ 2d)                        | ± (0.5%+ 2d)          |
|                                                  | Input Impedance:        | 10MΩ                                                                         | 10MΩ                                | 10MΩ                                      | 10MΩ                                                                       | 10MΩ                                | 10MΩ                  |
|                                                  | Overload Protection     | 1000V rms                                                                    | 1000V rms                           | 1000V rms                                 | 1000V rms                                                                  | 1000V rms                           | 1000V rms             |
| ACV:                                             | Ranges                  | 600.0mV ~ 750V                                                               | 600.0mV ~ 750V                      | 600.0mV ~ 750V                            | 400.0mV ~ 750V                                                             | 400.0mV ~ 750V                      | 400.0mV ~ 750V        |
|                                                  | Resolution              | 0.1mV                                                                        | 0.1mV                               | 0.1mV                                     | 0.1mV                                                                      | 0.1mV                               | 0.1mV                 |
|                                                  | Basic Accuracy:         | ± (0.9%+ 5d) at 50Hz ~ 500Hz, 600.0mV (unspecified)                          |                                     |                                           | ± (1.2%+ 5d) at 50Hz ~ 500Hz                                               |                                     |                       |
|                                                  | Input Impedance:        | 10MΩ// <100pF                                                                | 10MΩ// <100pF                       | 10MΩ// <100pF                             | 10MΩ// <100pF                                                              | 10MΩ// <100pF                       | 10MΩ// <100pF         |
|                                                  | Overload Protection:    | 1000V rms                                                                    | 1000V rms                           | 1000V rms                                 | 1000V rms                                                                  | 1000V rms                           | 1000V rms             |
|                                                  | Conversion Type:        | Average sensing RMS indicating                                               | True-RMS                            | True-RMS                                  | True-RMS                                                                   | True-RMS                            | True-RMS              |
| DCA:                                             | Ranges                  | 600.0μA, 6000A                                                               | 600.0μA, 6000μA, 6.000A, 10.00A     |                                           | 400.0μA, 4000μA, 10.00A                                                    |                                     |                       |
|                                                  | Resolution              | 0.1μA                                                                        | 0.1μA                               | 0.1μA                                     | 0.1μA                                                                      | 0.1μA                               | 0.1μA                 |
|                                                  | Basic Accuracy          | ± (1.0%+ 2d)                                                                 | ± (1.0%+ 2d)                        | ± (1.0%+ 2d)                              | ± (1.0%+ 2d)                                                               | ± (1.0%+ 2d)                        | ± (1.0%+ 2d)          |
|                                                  | Input Impedance:        | 600V rms for μA input                                                        | 600V rms for μA input               | 600V rms for μA input                     | 600V rms for μA input                                                      | 600V rms for μA input               | 600V rms for μA input |
|                                                  |                         | 10A/500A fast blow fuse for A input                                          |                                     |                                           | 10A/500A fast blow fuse for A input                                        |                                     |                       |
| ACA:                                             | Ranges                  | 600.0μA, 6000μA                                                              | 6.000A, 10.00A                      | 6.000A, 10.00A                            |                                                                            | 10.00A                              | 10.00A                |
|                                                  | Resolution              | 0.1μA                                                                        | 0.1μA                               | 0.1μA                                     |                                                                            | 10mA                                | 10mA                  |
|                                                  | Basic Accuracy          | ± (1.5% rdg + 5d) at 50Hz~500Hz                                              |                                     |                                           |                                                                            | ± (1.5% rdg + 5d) at 50Hz~500Hz     |                       |
|                                                  | Input Impedance         | 600V rms for μA input                                                        | 600V rms for μA input               | 600V rms for μA input                     |                                                                            | 600V rms for μA input               | 600V rms for μA input |
|                                                  |                         |                                                                              | 16A/500V fast blow fuse for A input |                                           |                                                                            | 16A/500V fast blow fuse for A input |                       |
| OHM:                                             | Ranges                  | 600.0Ω ~ 60.00MΩ                                                             | 600.0Ω ~ 60.00MΩ                    | 600.0Ω ~ 60.00MΩ                          | 400.0Ω ~ 40.00MΩ                                                           | 400.0Ω ~ 40.00MΩ                    | 400.0Ω ~ 40.00MΩ      |
|                                                  | Resolution              | 0.1Ω                                                                         | 0.1Ω                                | 0.1Ω                                      | 0.1Ω                                                                       | 0.1Ω                                | 0.1Ω                  |
|                                                  | Accuracy                | 600.0 / 400.0Ω ± (0.7%+ 2d)                                                  |                                     |                                           | 600.0 / 400.0Ω ± (1.0%+ 5d)                                                |                                     |                       |
|                                                  |                         | 6.000 / 4.000KΩ, 60.00/40.00KΩ, 600.0 / 400.0KΩ ± (0.7%+ 2d)                 |                                     |                                           |                                                                            |                                     |                       |
|                                                  |                         | 6.000 / 4.000MΩ ± (1.0%+ 2d)                                                 |                                     |                                           | 6.000 / 4.000MΩ ± (0.7%+ 2d)                                               |                                     |                       |
|                                                  |                         | 60.00/40.00MΩ ± (1.5%+ 2d)                                                   |                                     |                                           |                                                                            |                                     |                       |
| Overload Protection                              | 600V rms                | 600V rms                                                                     | 600V rms                            | 600V rms                                  | 600V rms                                                                   | 600V rms                            |                       |
| CONTINUITY BEEPER:                               | <150Ω, 2KHz tone buzzer | ●                                                                            | ●                                   | ●                                         | <350Ω                                                                      | <350Ω                               | <350Ω                 |
| DIODE TEST:                                      | Open circuit voltage    | 3V                                                                           | 3V                                  | 3V                                        | 3V                                                                         | 3V                                  | 3V                    |
| FREQUENCY COUNTER:                               | Ranges                  | 6000Hz ~ 60.00MHz                                                            | 6000Hz ~ 60.00MHz                   | 6000Hz ~ 60.00MHz                         | 4KHz ~40.00MHz                                                             | 4KHz ~40.00MHz                      | 4KHz ~40.00MHz        |
|                                                  | Resolution              | 1Hz                                                                          | 1Hz                                 | 1Hz                                       | 1Hz                                                                        | 1Hz                                 | 1Hz                   |
|                                                  | Accuracy:               | 6000 / 4000Hz, 60.00 / 40.00KHz, 600.0 / 400.0KHz ± (0.01%+ 1d) at 100mV rms |                                     |                                           | 6000 / 4000Hz, 60.00 / 40.00KHz, 600.0 / 400.0KHz ± (0.01%+ 1d) at 150Vrms |                                     |                       |
|                                                  |                         | 6.000/4.000MHz ± (0.01%+ 1d) at 250mV rms                                    |                                     | 6.000/4.000MHz ± (0.01%+ 1d) at 350mV rms |                                                                            |                                     |                       |
|                                                  |                         | 60.00 / 40.00MHz ± (0.01%+ 1d) at 1V rms                                     |                                     |                                           |                                                                            |                                     |                       |
|                                                  |                         | Overload Protection                                                          | 600V rms                            | 600V rms                                  | 600V rms                                                                   | 600V rms                            | 600V rms              |
| CAPACITANCE:                                     | Ranges                  | 6.000nF ~ 6.000mF                                                            |                                     |                                           | 4.000nF ~ 4.000mF                                                          |                                     |                       |
|                                                  | Resolution              | 1pF                                                                          | 1pF                                 | 1pF                                       | 1pF                                                                        | 1pF                                 | 1pF                   |
|                                                  | Basic Accuracy          | ± (1.9%+ 8d)                                                                 | ± (1.9%+ 8d)                        | ± (1.9%+ 8d)                              | ± (2.0%+ 8d)                                                               | ± (2.0%+ 8d)                        | ± (2.0%+ 8d)          |
|                                                  | Overload Protection     | 600V rms                                                                     | 600V rms                            | 600V rms                                  | 600V rms                                                                   | 600V rms                            | 600V rms              |
|                                                  |                         |                                                                              |                                     |                                           |                                                                            |                                     |                       |

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