

# APPA 200 Series VersaMeter™

## The Most Friendly Bench Instruments



It is a multimeter

It is also a Frequency Counter

It is also a Capacitance meter

It has dual display – analog and digital

It is AC/DC operated

It has both autoranging and manual selection

It is the best value for your money



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# APPA 200 SERIES VERSAMETER™

## FEATURES

	201	203	205
4000 count digital display updates 2 times per second	.	.	.
2000 count digital display updates 2 times per second	.	.	.
42 segment analog bar graph display updates 20 times per second	.	.	.
Full annunciators and automatic polarity indication	.	.	.
Autoranging and manual selection	.	.	.
Backlight display	.	.	.
AC/DC power operating	.	.	.
Carrying strap and tilt stand	.	.	.
Built-in storage compartment for accessories	.	.	.
Data hold function	.	.	.
Audible continuity and diode test	.	.	.
Frequency counter	.	.	.
Capacitance Measurement	.	.	.
Min Max Hold function	.	.	.
Relative mode	.	.	.
Memory store and recall	.	.	.
True RMS voltage and current responding	.	.	.
Delay Hold function	.	.	.
6KV transients protection on 660V AC feeders	.	.	.
Insulated input jacks and safety test leads	.	.	.
Conformed to meet UL3111 and IEC 1010-1 specifications	.	.	.

SPECIFICATIONS: (All at 23°C ± 5°C, 80% R.H.)

### VOLTAGE:

DCV	201	203	205
400mV		± (0.6%+2d)	± (0.3%+2d)
4V, 40V, 400V, 600V		± (0.4%+2d)	± (0.1%+2d)
200mV, 2V, 20V, 200V, 600V		± (0.5%+2d)	

ACV	201	203	205
4V, 40V, 400V, 600V			
50Hz~60Hz		± (0.8%+5d)	± (0.5%+5d)
40Hz~1KHz		± (1.3%+5d)	± (1%+5d)
2V, 20V, 200V, 600V		± (1.5%+5d)	
40Hz~500Hz			

	201	203	205
Resistance: 0.1mV in DCV, 1mV in ACV	.	.	.
Input Impedance: 10MΩ <100pF	.	.	.
Overload Protection: 1100 VDC or AC peak	.	.	.
Average sensing RMS indicating	.	.	.
AC coupled True RMS responding	.	.	.

### CURRENT

DCA	201	203	205
4mA, 40mA, 400mA		± (0.7%+2d)	± (0.4%+2d)
10A (20A for 30 seconds)		± (1.3%+4d)	± (0.8%+4d)
200μA, 2mA, 20mA, 200mA		± (0.8%+2d)	
10A (20A for 60 seconds)		± (1.5%+4d)	

ACA	201	203	205
4Hz~1KHz			
4mA, 40mA, 400mA		± (1.3%+5d)	± (1%+5d)
10A (20A for 60 seconds)		± (2.0%+5d)	
40Hz~500Hz			
200μA, 2mA, 20mA, 200mA		± (1.5%+5d)	
10A (20A for 60 seconds)		± (2.5%+5d)	

	201	203	205
Resistance: 1μA in the 4mA range	.	.	.
0.1μA in the 200μA range	.	.	.
Input protection: 1A, 600V IR 10kA fuse for μAmA input	.	.	.
15A, 600V IR 100kA fuse for A input	.	.	.
Burden voltage: 600mV max. for μAmA input, 900mV max. for A input	.	.	.
Average sensing RMS indicating	.	.	.
AC coupled True RMS responding	.	.	.

### RESISTANCE:

OHM	201	203	205
400Ω		± (0.6%+4d)	± (0.4%+4d)
4kΩ 40kΩ 400kΩ		± (0.6%+2d)	± (0.4%+2d)
4MΩ		± (0.8%+3d)	± (0.6%+3d)
40MΩ		± (1.8%+5d)	± (1.5%+5d)
200Ω 2kΩ 20kΩ 200kΩ 2MΩ		± (0.8%+2d)	
20MΩ		± (2.5%+5d)	

	201	203	205
Resistance: 0.1Ω	.	.	.
Open circuit Voltage: 0.4V	.	.	.
Low power ohms 0.45V, high power ohms 0.9V	.	.	.
Input protection: 600V rms	.	.	.

### CONTINUITY TEST:

	201	203	205
Continuity threshold: Approx. 50Ω	.	.	.
Continuity indicator: 2kHz tone buzzer	.	.	.
Input Protection: 600V rms	.	.	.

### DIODE TEST:

	201	203	205
Test current: 0.6mA	.	.	.
1.0mA	.	.	.
Open circuit voltage: 3.0V max	.	.	.
3.3V max	.	.	.
Input protection: 600V rms	.	.	.

### CAPACITANCE:

	201	203	205
Range: 4nF, 40nF, 400nF, 4μF, 40μF	.	.	.
Resolution: 1pF in the 4nF range	.	.	.
Accuracy: ± (1%+4d) for 40nF to 20μF, ± (5%+8d) for 20μF, in relative mode	.	.	.
Input protection: 600V rms	.	.	.

### FREQUENCY COUNTER:

	201	203	205
Range: 100Hz, 1kHz, 10kHz, 100kHz, 1MHz	.	.	.
Resolution: 0.01Hz in the 100Hz range	.	.	.
Accuracy: ± (0.1%+4d)	.	.	.
Sensitivity: 40mV rms for 1Hz~20kHz, 400mV rms for 20kHz~1MHz	.	.	.
Input protection: 600V rms	.	.	.

### ADAPT RANGE:

	201	203	205
Display: 10 counts per 1mVDC	.	.	.
Accuracy: ± (0.1%+2d)	.	.	.
± (0.3%+2d)	.	.	.
Input protection: 600V rms	.	.	.

## GENERAL SPECIFICATIONS

	201	203	205
Display: 3 digit (4000 count) digital indication	.	.	.
3 digit (2000 count) digital indication	.	.	.
42 segment analog bar graph	.	.	.
Full annunciators, automatic polarity indication	.	.	.
Measuring rate: Digit 2 times per second	.	.	.
Analog bar graph 20 times per second	.	.	.
Capacitance 1 time per second	.	.	.
Overrange indication: MSD (Most Significant Digit) Blinks "1" Blinks	.	.	.
Backlight: LED Lumination	.	.	.
Temperature Coefficient: 0.15 x (Spec. Accuracy) per °C, <18°C or >28°C	.	.	.
Temperature: Operating 0°C to 50°C, 80% R.H. Storage -30°C to 70°C	.	.	.
Safety: Conformed to UL3111 and IEC 1010-1 specifications	.	.	.
Power Requirements: AC 90 to 264V, 50/60Hz, <10VA min. (User supplied) DC AA or LR6 or AM3 battery 1.5V x 6	.	.	.
Battery Life: 1800 hours without backlight (alkaline) 1200 hours without backlight (alkaline) 80 hours with continuous backlight (alkaline)	.	.	.
Size: 218mm(W) x 195mm(L) x 73mm(H), without carrying strap	.	.	.
Weight: 1.3kg, without power cord	.	.	.
Included with Instrument: Test leads, carrying strap, Power cord and user's manual	.	.	.

Specifications subject to change without notice.

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