Professional Digital Multimeter Models CA5205, CA5210, CA5220, CA5230 & CA5240



The AEMC® Instruments CA5000 Series are designed for the daily needs of professional electricians. For the safety of the user, these multimeters meet the most demanding international standards: double insulation in accordance with EN 61010-1-III-2, 600V, Cat. III.

These tough, reliable and economical Digital Multimeters (DMMs) feature a large backlit display, clear push-button functions, large rotary range selector and dedicated push buttons. The compact, handheld size along with the rugged, shockproof rubber holster makes this unit ideal for toolboxes and pockets.

Model CA5205 has a 2000-count display that is average sensing and provides 1% accuracy of Reading. Models CA5210, CA5220 and CA5230 have a 4000-count display are average sensing and provide 1% accuracy (Models CA5210 and CA5220), and 0.25% accuracy (Model CA5230) of Reading.



Features

- Tough, reliable, economical, professional DMMs in choice of 2000-, 4000- and 40,000-count models
- Automatic AC/DC selection (Model CA5205)
- · Large backlit display
- · Clear pushbutton functions
- Large rotary range selector and dedicated push buttons
- Rugged shockproof Multistand™ rubber holster for lead and probe storage

- Safety rated to EN 61010, 600V, Cat. III for protection against spikes and over-voltage
- Accurate average sensing or TRMS models for your linear loads and distorted signals
- Complete line of accessories including leads and industry's largest selection of current probes

Applications

- Installation, repair or maintenance of industrial equipment
- · Electrical field testing
- Troubleshooting failures and poor performance



Model CA5205 measuring resistance in a relay cabinet.



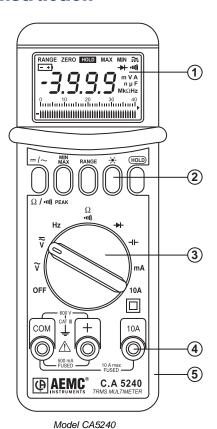
Specifications

MODELS	CA5205 ⁽³⁾	CA5210 ⁽⁴⁾	CA5220	CA5230	CA5240
DC VOLTAGE					
Measurement	5 Ranges:	5 Ranges:	5 Ranges:	5 Ranges:	5 Ranges:
Range ⁽¹⁾	200mV to 600V	400mV to 600V	400mV to 600V	400mV to 600V	400mV to 600V
Resolution	0.1mV to 1V	0.1mV to 1V	0.1mV to 1V	0.1mV to 1V	10μ V to 100mV
Basic Accuracy*	±1% of Reading ± 1ct	±1% of Reading ± 1ct	±1% of Reading ± 1ct	±0.25% of Reading ± 1ct	±0.1% of Reading ± 3cts
Input Impedance(2)	3MΩ	10MΩ	10MΩ	10MΩ	3MΩ
AC VOLTAGE					
Measurement	5 Ranges:	5 Ranges:	5 Ranges:	5 Ranges:	5 Ranges:
Range ⁽¹⁾	200mV to 600V	400mV to 600V	400mV to 600V	400mV to 600V	400mV to 600V
Resolution	0.1mV to 1V	0.1mV to 1V	0.1mV to 1V	0.1mV to 1V	10µV to 100mV
Basic Accuracy*	±1% of Reading ± 5cts	±1.5% of Reading ± 1ct	±1.5% of Reading ± 1ct	±1% of Reading ± 3cts	±1.5% of Reading ± 20cts
Input Impedance ⁽²⁾	3ΜΩ	10MΩ	10MΩ	10MΩ	3MΩ
DC CURRENT	I		I	I	
Measurement	-	-	3 Ranges:	3 Ranges:	3 Ranges:
Range ⁽¹⁾			40mA to 10A	40mA to 10A	40mA to 10A
Resolution	-	-	10μ A to 10mA	10μ A to 10mA	1μA to 1mA
Basic Accuracy*	_	_	±1.5% of Reading ± 2cts	±1.2% of Reading ± 5cts	±0.5% of Reading ± 10cts
AC CURRENT	I		I	I	l
Measurement	_	-	3 Ranges:	3 Ranges:	3 Ranges:
Range ⁽¹⁾			40mA to 10A	40mA to 10A	40mA to 10A
Resolution	-	=	10µA to 10mA	10µ A to 10mA	1µ A to 1mA
Basic Accuracy*	_	-	±1.5% of Reading ± 2cts	±0.8% of Reading ± 4cts	±0.9% of Reading ± 5cts
RESISTANCE		- D			
Measurement Range	6 Ranges: 200Ω to $20M\Omega$	6 Ranges: 400Ω to $40M\Omega$	6 Ranges: 400Ω to $40M\Omega$	6 Ranges: 400Ω to $40M\Omega$	6 Ranges: 400Ω to $40M\Omega$
Resolution	0.1Ω to $10k\Omega$	0.1Ω to $10k\Omega$	0.1Ω to 10kΩ	0.1Ω to $10k\Omega$	0.1Ω to $10k\Omega$
Basic Accuracy*	±1.5% of Reading ± 5cts	±1.5% of Reading ± 3cts	±1.5% of Reading ± 3cts	±0.5% of Reading ± 3cts	±0.2% of Reading ± 3cts
CONTINUITY					
Beeper Activation	≤700Ω	≤40Ω	<40Ω	<40Ω	<40Ω
DIODE					
Resolution	1mV	1mV	1mV	1mV	1mV
Basic Accuracy*	±2% of Reading ± 15mV	±2% of Reading ± 15mV	±2% of Reading ± 15mV	±1% of Reading ± 2cts	±1% of Reading ± 10cts
CAPACITANCE					
Measurement	_	5 ranges: 4nF to 40µF	5 ranges: 4nF to 40µ F	5 ranges: 4nF to 40µF	5 ranges: 4nF to 40µF
Range	_	5 ranges. 4nr to 40µr	5 ranges. 4nr to 40µr	5 ranges. 4nr to 40µr	5 ranges. 4nr to 40µr
Basic Accuracy*	-	±5% of Reading ± 10cts	±5% of Reading ± 10cts	±1.5% of Reading ± 4cts	±1.5% of Reading ± 5cts
FREQUENCY					
Measurement Range	-	-	5 Ranges: 10Hz to 400kHz	5 Ranges: 100Hz to 400kHz	5 Ranges: 100Hz to 400kHz
Basic Accuracy*	-	-	±0.1% of Reading ± 2cts	±0.1% of Reading ± 20cts	±0.1% of Reading ± 10cts
GENERAL					<u> </u>
Digital Display	2000-count	4000-count	4000-count	4000-count	40,000-count
Analog Bargraph	-	40-segment	40-segment	40-segment	40-segment
Power Source		2 "AA" Batteries 1.5V	. •	·	attery 9V
Dimensions	7.0 x 2.5 x 1.7" (177 x 64 x 42mm)				
Weight	0.7 lb (350g)				
ENVIRONMENTAL			(9)		
Operating	32° to 122°F (-10° to 60°C)				
Temperature Storage	· · · · ·				
Storage Temperature	-4° to 140°F (-40° to 70°C)				
SAFETY					
Safety Rating	EN 61010, 600V, Cat III				
CE Mark					
(1) Use on frequency:	00011		Yes		

- (1) Use on frequency: 0 to 60Hz
 (2) For the CA5210/CA5220, on position V elec: base impedance 270kΩ
 (3) Automatic recognition of DC or AC
 (4) Additional function "ADP": input 0 to 400mVpc for accessories
 * Accuracy dependent on range



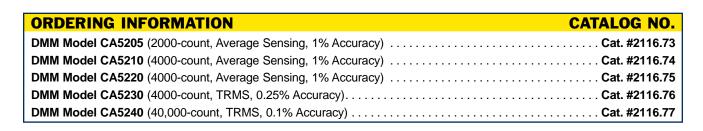
Construction



- 1. LCD display
- 2. Control buttons
- 3. Rotary range selector switch
- 4. Safety terminals (4mm)
- 5. Shockproof rubber holster



Test Leads included with CA5000 Series





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