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, hand-held 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.

All models include a rugged, shockproof, protective, blue holster with Multistand[™] (for lead and probe storage), test leads, 9V Alkaline battery and a user manual.



Features

- Tough, reliable, economical, professional DMMs in choice of 2000-, 4000- and 40,000-count models
- Automatic AC/DC selection (Model CA5205)
- Large backlit LCD (model dependent)
- Clear pushbutton functions
- Large rotary range selector and dedicated push buttons
- 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
- Includes rugged, shockproof, protective, dirt resistant gray holster with Multistand[™] (for lead and probe storage) and test leads
- Three year warranty

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

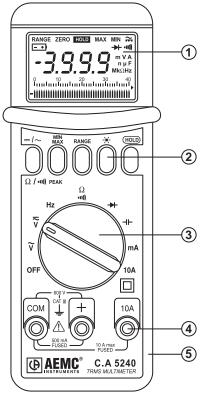
MODELS	CA5205 ⁽³⁾	CA5210 ⁽⁴⁾	CA5220	CA5230	CA5240
AC CURRENT	0/10200	0/10110	0//0220	0/10200	0/10110
			2 Dengoou	2 Dengaay	2 Dengagy
Measurement Range ⁽¹⁾	_	_	3 Ranges: 40mA to 10A	3 Ranges: 40mA to 10A	3 Ranges: 40mA to 10A
Resolution	-	-	10µ A to 10mA	10µ A to 10mA	1µA to 1mA
Basic Accuracy*	-	-	±1.5% of Reading ± 2cts	±0.8% of Reading ± 4cts	±0.9% of Reading ± 5cts
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	10µ V 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⁾	3MΩ	10MΩ	10MΩ	10MΩ	3MΩ
DC CURRENT					
Measurement Range ⁽¹⁾	-	-	3 Ranges: 40mA to 10A	3 Ranges: 40mA to 10A	3 Ranges: 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
DC VOLTAGE			1 = 1.0 /0 01 1 1000011g = 2015		
	E Dongoos	E Dongoo:	E Dongooi	E Dongoo:	E Dongoo:
Measurement Range ⁽¹⁾	5 Ranges: 200mV to 600V	5 Ranges: 400mV to 600V	5 Ranges: 400mV to 600V	5 Ranges: 400mV to 600V	5 Ranges: 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
RESISTANCE					
Measurement Range	6 Ranges: 200 Ω to 20M Ω	6 Ranges: 400 Ω to 40M Ω	6 Ranges: 400 Ω to 40M Ω	6 Ranges: 400 Ω to 40M Ω	6 Ranges: 400 Ω to 40M Ω
Resolution	0.1Ω to 10kΩ	0.1Ω to 10kΩ	0.1Ω to 10kΩ	0.1Ω to 10kΩ	0.1Ω to 10kΩ
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
Beeper Activation	≤700Ω	<u>≤</u> 40Ω	<40Ω	<40Ω	<40Ω
DIODE TEST	\$70052	\$4052	<4052	<4052	<4052
	4.14	4.34	4.14	4.14	4.14
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 Range	-	5 ranges: 4nF to 40μ F	5 ranges: 4nF to 40µ F	5 ranges: 4nF to 40µ F	5 ranges: 4nF to 40µ F
Basic Accuracy*	-	±5% of Reading ± 10cts	±5% of Reading ± 10cts	±1.5% of Reading ± 4cts	±1.5% of Reading ± 5cts
FREQUENCY		Ŭ	Ŭ	Ť	, v
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	
GENERAL		_	1 ±0.170 01 HEAUINY ± 2015		
	0000	4000	4000	4000	40.000
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	Two AA Alkaline batteries 1.5V Alkaline 9V battery				
Dimensions	7.0 x 2.5 x 1.7" (177 x 64 x 42mm)				
Weight			0.7 lb (350g)		
ENVIRONMENTAL					
Operating Temperature	32° to 122°F (-10° to 60°C)				
Storage	-4° to 140°F (-40° to 70°C)				
Temperature	<u> </u>				
SAFETY					
Safety Rating	EN 61010, 600V, Cat III				
Double 🔲 Insulation	Yes				
CE Mark			Yes		
(1) Use on frequency:	0 to 6011=				

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



Professional Digital Multimeter Models CA5205, CA5210, CA5220, CA5230 & CA5240 Rev. 04 04/04

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

ORDERING INFORMATION	CATALOG NO.
DMM Model CA5205 (2000-count, Average Sensing, 1% Accuracy)	Cat. #2116.73
DMM Model CA5210 (4000-count, Average Sensing, 1% Accuracy)	Cat. #2116.74
DMM Model CA5220 (4000-count, Average Sensing, 1% Accuracy)	Cat. #2116.75
DMM Model CA5230 (4000-count, TRMS, 0.25% Accuracy)	Cat. #2116.76
DMM Model CA5240 (40,000-count, TRMS, 0.1% Accuracy)	Cat. #2116.77





Contact Us

United States & Canada:

Chauvin Arnoux[®], Inc. d.b.a. AEMC[®] Instruments 200 Foxborough Blvd. Foxborough, MA 02035 USA (508) 698-2115 • Fax (508) 698-2118 www.aemc.com

Customer Support – for placing an order, obtaining price & delivery: customerservice@aemc.com

Sales Department – for general sales information: sales@aemc.com

Repair and Calibration Service – for information on repair & calibration, obtaining a user manual: repair@aemc.com

Technical and Product Application Support – for technical and application support: techinfo@aemc.com

Webmaster – for information regarding www.aemc.com: webmaster@aemc.com

South America, Central America, Mexico, Caribbean, Australia & New Zealand:

Chauvin Arnoux[®], Inc. d.b.a. AEMC[®] Instruments 15 Faraday Drive Dover, NH 03820 USA (978) 526-7667 • Fax (978) 526-7605 export@aemc.com www.aemc.com

All other countries:

Chauvin Arnoux SCA 190, rue Championnet 75876 Paris Cedex 18, France 33 1 44 85 45 28 • Fax 33 1 46 27 73 89 info@chauvin-arnoux.com www.chauvin-arnoux.com

