## DIGITAL MULTIMETERS MX50 Series & CA5000 Series











CE



- ➤ 50,000-count Digital Multimeters for field and plant use (MX50 Series)
- ➤ 40,000-count Digital Multimeters are tough, reliable, economical and professional (CA5000 Series)
- 4000-count Digital Multimeters provide accurate average sensing or TRMS models for linear loads and distorted signals
- 2000-count Digital Multimeters are rugged tools, providing automatic AC/DC selection
- Intrinsically Safe Multimeter for use in dangerous or explosive atmospheres (MX 57EX)
- > EN 61010, 600V Cat III and 1000V Cat. II
- ► Waterproof to IP67 (MX50 Series)



### **50,000-COUNT DIGITAL MULTIMETER** Models MX53<sup>III</sup>, MX54<sup>III</sup> & MX56<sup>III</sup>



The Models MX53, MX54 and MX56 are hand-held professional digital multimeters that measure up to the toughest standards. They are built into a rugged housing which provides a separate battery and fuse compartment to isolate the DMM's electronics from contamination. These meters offer a complete set of measurement ranges and are in compliance with international safety and quality standards to ensure a professional and reliable measuring tool.

These True RMS (AC or AC + DC) meters provide accurate measurements of non-sinusoidal waveforms. They all measure AC Amps, AC Volts, DC Amps, DC Volts, Resistance, Continuity, Capacitance, Frequency and have a Diode Test function. AC Voltage measurement can be displayed in Volts, in dB or in resistance power. Once the load impedance has been programmed the multimeter automatically calculates the value in dB and the power consumed (VA).

The large and easy-to read LCD features a selectable 50,000-count digital display. The display features comprehensive user interface symbols, such as low battery, Min/Max/Avg and a 34-segment analog bargraph for easy trend readings. Accuracy is 0.025%. All models are equipped with a Data Hold function that freezes the measurement for later viewing. All models are waterproof, IP67 rated as well as CE marked.

All models include a pair of test leads (red/black), 9V Alkaline battery and a user manual.



#### FFATURES

- ► 50,000-count, 5000-count selectable
- ► Accuracy to 0.025%
- ► 600VAC/DC volts measurements
- ► True RMS (AC or AC + DC)
- $\blacktriangleright$  Selectable to 1G $\Omega$  on the 500mV range
- ➤ EN 61010, 600V Cat. III and 1000V Cat. II
- IP67 rated
- ► RS-232 communication available
- Includes rubber holster

#### ПРАТИ

- Installation, repair or maintenance of industrial equipment
- ► Design verification of prototypes/ production units
- Troubleshooting failures and poor performance
- Quality analysis



Model MX56<sup>III</sup> measuring DC voltages in a signal control panel.



#### **SPECIFICATIONS**

MODELS	MX53 <sup></sup>	MX54"	MX56 <sup></sup>				
ELECTRICAL							
AC Current Measurement Range	5mA to 10A	500µA to 10A	500µA to 10A				
Resolution	1µA to 10mA	10nA to 1mA	10nA to 1mA				
Basic Accuracy <sup>(1)</sup>	±1% of Reading ± 3cts	±0.6% of Reading ± 30cts	±0.6% of Reading ± 30cts				
AC Voltage	±176 Of Reading ± 3015	±0.0 % of Reading ± 50cts	$\pm 0.0$ % of neading $\pm$ 30005				
Measurement Range	0.5 to 750V	0.5 to 750V	0.5 to 750V				
Resolution	100µV to 1V	10µV to 100mV	10µV to 100mV				
Basic Accuracy <sup>(1)</sup>	±1% of Reading ± 3cts	$\pm 0.3\%$ of Reading $\pm 30$ cts	±0.3% of Reading ± 30cts				
Input Impedance	10MΩ	10MΩ	10MΩ				
DC Current							
Measurement Range	5mA to 10A	500µA to 10A	500µA to 10A				
Resolution	100nA to 1mA	10nA to 1mA	10nA to 1mA				
Basic Accuracy <sup>(1)</sup>	±0.2% of Reading ± 2cts	±0.05% of Reading ± 2cts	±0.05% of Reading ± 2cts				
DC Voltage	•	- I	~				
Measurement Range	0.5 to 1000V	0.5 to 1000V	0.5 to 1000V				
Resolution	10µV to 100mV	10µV to 100mV	10µV to 100mV				
Basic Accuracy <sup>(1)</sup>	±0.1% of Reading ± 2cts	±0.05% of Reading ± 2cts	±0.025% of Reading ± 2cts				
Input Impedance	10MΩ	10MΩ	10MΩ				
Resistance							
Measurement Range	500 $\Omega$ to 50M $\Omega$	$500\Omega$ to $50M\Omega$	500Ω to 50MΩ				
Resolution	$10m\Omega$ to $1k\Omega$	10mΩ to 1kΩ	10m $\Omega$ to 1k $\Omega$				
Basic Accuracy <sup>(1)</sup>	±0.1% of Reading ± 3cts	±0.07% of Reading ± 2cts	±0.07% of Reading ± 2cts				
Continuity							
Measurement Range	10 to 20Ω	10 to 20Ω	10 to 20Ω				
Response Time	1ms	1ms	1ms				
Diode Test							
Resolution	1mV	1mV	1mV				
Test Current	1mA ± 20%	1mA ± 20%	1mA ± 20%				
Capacitance			50 51 50 5				
Measurement Range	50nF to 50mF	50nF to 50mF	50nF to 50mF				
Resolution	10pF to 10µF	10pF to 10µF	10pF to 10μF				
Basic Accuracy <sup>(1)</sup>	$\pm 1\%$ of Reading $\pm 2$ cts	±1% of Reading ± 2cts	$\pm 1\%$ of Reading $\pm 2$ cts				
Frequency Measurement Range	0.62Hz to 500kHz	0.62Hz to 500kHz	0.62Hz to 500kHz				
Basic Accuracy <sup>(1)</sup>	0.03% of Reading	0.03% of Reading	0.02H2 to 500kH2				
dB Function	0.05 % 01 Heading	0.05 % 01 Reading	0.03 % of neading				
Measurement Range	_	10mVac to 750Vac	10mVac to 750Vac				
Resolution	_	0.01dB	0.01dB				
Other Features		0.0100	0.0100				
Pulse Count	_	Up to 99,999-counts	Up to 99,999-counts				
Pulse Width	_	20µs (min)	20µs (min)				
Power Line Noise Analysis	_	1 to 100kHz	1 to 100kHz				
Resistive Power (Programmable refere	nce)						
Measurement Range	_	1 to 9999Ω	1 to 9999Ω				
Resolution	-	100µW	100µW				
Temperature							
Range (User selectable in °F or °C)	-	-328° to 1472°F (-200° to 800°C)	-				
Sensor	_	PT100/PT1000	_				
Power Source	9V Alkaline battery	9V Alkaline battery	9V Alkaline battery				
Battery Life	500 hours	500 hours	500 hours				
MECHANICAL							
Dimensions		7.4 x 3.2 x 1.5" (189 x 82 40mm)					
Weight		0.8 lb (400g)					
DISPLAY							
Digital Display		50,000-count					
		34-segment					
ENVIRONMENTAL							
Operating Temperature		14° to 140°F (-10° to 60°C)					
Storage Temperature		-40° to 158°F (-40° to 70°C)					
SAFETY Sofety Beting							
Safety Rating Double Insulation		EN 61010, 600V Cat. III and 1000V Cat. II					
DODULE INSULATION	Yes						
CE Mark		Yes					



# INTRINSICALLY SAFE DIGITAL MULTIMETER Model MX 57EX



The AEMC Model MX 57EX is an intrinsically safe digital multimeter designed for use in dangerous or explosive atmospheres. This meter in considered as a passive device without inductive or capacitive issues that are problematic in dangerous or explosive environments. This meter provides high functionality in a unique case designed for enhanced safety, reliability, ease-of-maintenance and protection from contaminants.

The meter is built into a rugged housing which provides a separate battery and fuse compartment to isolate the DMM's electronics from contamination. This meter offers a complete set of measurement ranges and are in compliance with international safety and quality standards to ensure a professional and reliable measuring tool.

The Model MX 57EX measures AC Amps, AC Volts, DC Amps, DC Volts, Resistance, Continuity (with beeper), Capacitance, Temperature and has a Diode Test function.

The large and easy-to read LCD features a 50,000-count digital display. The display features comprehensive user interface symbols, such as low battery, Min/Max/Avg and a 34-segment analog bargraph for easy trend readings. Accuracy is 0.025%. The meter is equipped with a Data Hold function that freezes the measurement for later viewing.

Includes a pair of test leads (red/black), 9V Alkaline battery, hard carrying case and a user manual.

- ► ATEX 6005X, (Èx) II 2 G/D EEx ib IICT6 or (Èx) I M2 EEx ib I assigned specifications
- Logic signal measurement and ADP input
- Min/Max/Avg functions
- ► Bargraph with zoom (x5) and center zero
- ► Rugged design IP67 185°F (85°C) rating
- Protection by 500mA intrinsic safety fuse for the current range

#### **APPLICATIONS**

- ► Oil refineries
- ► Mining
- Pharmaceutical plants



Model MX 57EX used outdoors in a mine.

#### THE MX 57EX HAS BEEN REPLACED BY THE MODEL MX 57EX TRMS Cat. # 2130.66



#### THE MX 57EX HAS BEEN REPLACED BY THE MODEL MX 57EX TRMS Cat. # 2130.66

Meets the EN 50014 and EN 50020 standards, 😥 II 2 G/D EEx ib IICT6 or 😥 I M2 EEx ib I assigned specifications, IP 67 185°F (85°C) (electrical equipment for use in explosive atmospheres). CE certificate: LCIE 02 ATEX 6005X. Quality certificate: LCIE 02 ATEX Q8021.

MODEL	MX 57EX TRMS										
ELECTRICAL											
AC Current	-										
Measurement Range	500µA		5m				50mA			500mA	
Resolution	10nA		100				1µA			10µA	
Bandwidth	DC to 5kHz		DC to			DC to 5kHz			DC to 5kHz		
Accuracy	±0.75% of Reading ± 30cts		±0.6% of Rea			±0.6% of Reading ± 30cts		30cts	±0.7% of Reading ± 30cts		
Overload Protection	600Vrms		600V	/rms	3	6	00Vrms			600Vrms	
AC Voltage							1				
Measurement Range	500mV			5V		50V		500V*		1000V*	
Resolution	10µV		100µV		1mV		10mV			100mV	
Bandwidth			1kHz to 4kHz							30kHz to 50kHz	
Accuracy	±0.3% of Reading	) ±	1% of Reading			Reading		of Readin	ng	±3% of Reading	
la sut las sedences	11100		± 30cts			Bocts		± 30cts		± 30cts ± 30ct	
Input Impedance	11MΩ		11MΩ	_	10MΩ 1100Vpk		10MΩ 1100Vpk			10MΩ	
Overload Protection DC Current	1100Vpk		1100Vpk		1100	ЈУРК	I	тоохрк		1100Vpk	
	E000A		Em	<u>م</u>			E0m A			500mA	
Measurement Range	<u>500µA</u> 10nA		5m				50mA				
Resolution	±0.2% of Reading	. Eata		100nA .2% of Reading ± 2cts		0.050/ 00	<u>1µA</u>	Ooto	10µA		
Accuracy		± ocis					f Reading :	± ZCIS	±0.2	±0.2% of Reading ± 2cts	
Overload Protection	600Vrms		600V	11115	>	6	00Vrms			600Vrms	
DC Voltage	500mV		EVI			1/		E00\/*		1000\/*	
Measurement Range			5V 100µV	-+		DV nV		500V* 10mV		1000V* 100mV	
Resolution	10µV ±0.025% of Readir			_				-	ding		
Accuracy	±0.025% of Readu ± 2cts	1g   ±0.	025% of Readin ± 2cts	g	±0.025%	of Reading 2cts		% of Rea ± 2cts	ding	±0.2% of Reading ± 2cts	
Input Impedance	<u>± 2015</u> 11ΜΩ		$11M\Omega$	-		MΩ		$\pm 2005$ 10M $\Omega$		<u>± 2015</u> 10MΩ	
Overload Protection	1100Vpk		1100Vpk	-				100Vpk		1100Vpk	
Resistance	ΠΟΟΥΡΚ		ПООУрк		1100	OVpk	I	тоохрк		ТТООУРК	
Measurement Range	500Ω	F	kΩ	5		500k	0	51	10	50MΩ	
Resolution	10mΩ		OmΩ			10s	-				
				<u>1Ω</u>			-				
Accuracy	±0.07% of Reading ± 5cts 7V	Readin		±0.07% of Reading ± 2cts 7V		Reading ± 2cts Readir		8% of g <u>± 2cts</u> 7V	±1% of Reading ± 2cts 7V		
Max Open-Circuit Voltage	600Vrms			600Vrms		600Vr				600Vrms	
Overload Protection Continuity	buuvrins	600Vrms		60			rms 600Vrms		buuvrins		
Measurement Range					10 to	20Ω					
Response Time						ns					
Diode					11	115					
Test Voltage					0.+/	o 2V					
Test Current						± 20%					
					IIIIA	± 20 /0					
Range					50nE t	o 50mF					
Accuracy						ding ± 2cts					
Frequency					I /0 UI NEd	uniy ± 2015					
Measurement Range					0 60 47 +	o 500kHz					
				-		ading ± 2cts	2				
Accuracy Temperature				l	0.00 /0 UI Ht	auniy ± 2018	3				
Range (User selectable in °F or °C)				200	° to 1/70°⊏	(_200° to 00	10°C)				
Sensor		-328° to 1472°F (-200° to 800°C)									
Power Source		PT100/PT1000 9V Alkaline battery									
						hours					
Battery Life					100	nours					
MECHANICAL Dimensions			7	<u> </u>	20 v 1 5" /-	189 x 82 x 4	0mm)				
			1.4	4 X			uiiiii)				
Weight					U. & ID	(400g)					
DISPLAY					50.000	0.001					
Digital Display						)-count					
Analog Bargraph					34-se	gment					
ENVIRONMENTAL					10 1 10 107	( 100 / 100	0)				
Operating Temperature						(-10° to 40°					
Storage Temperature				-4(	u° to 158°F	(-40° to 70°	(U)				
SAFETY											
Safety Rating						, EN50020					
Double Insulation 🔲						es					
Agency Approval		<	εx∕ II 2 G/D EEx ib						ns		
EMC			Emission a	nd i		s per NF EN	61326-1,	1998			
CE Mark					Y	es					

\*Operating voltages are limited to 60V peak value or currents to 500mA for intrinsically safe operation.



#### **PROFESSIONAL DIGITAL MULTIMETER** FEATURES Models CA5205, CA5210, CA5220, (Model CA5205) CA5230 & CA5240



The AEMC<sup>®</sup> 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, 5220 and 5230 have a 4000-count display are average sensing and provide 1% accuracy (Models CA5210 and CA5220), and 0.25% accuracy (Model CA5230) of Reading.

- ➤ Tough, reliable, economical, professional DMMs in choice of 2000-, 4000- and 40.000-count models
- ► Automatic AC/DC selection
- ► Large backlit display
- ► Clear pushbutton functions
- ► Large rotary range selector and dedicated push buttons
- ► Rugged, shockproof Multistand<sup>™</sup> 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

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



Model CA5205 measuring resistance in a relay cabinet.



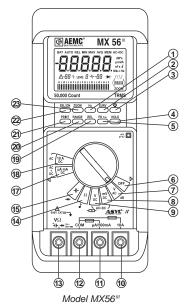
#### **SPECIFICATIONS**

MODELS	CA5205 <sup>(3)</sup>	CA5210 <sup>(4)</sup>	CA5220	CA5230 TRMS	CA5240 TRMS
ELECTRICAL					
AC Current		1			
Measurement Range <sup>(1)</sup>	-	-	3 ranges: 40mA to 10A	3 ranges: 40mA to 10A	3 ranges: 40mA to 10A
Resolution	-	_	10µA to 10mA	10µA 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 Range <sup>(1)</sup>	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	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 <sup>(2)</sup>	3MΩ	10MΩ	10MΩ	10MΩ	3MΩ
DC Current					
Measurement Range <sup>(1)</sup>	-	_	3 ranges: 40mA to 10A	3 ranges: 40mA to 10A	3 ranges: 40mA to 10A
Resolution	-	-	10µA to 10mA	10µA to 10mA	1µA to 1mA
Basic Accuracy*	-	_	±1.5% of Reading ± 2cts	±1.2% of Reading ± 5cts	±0.5% of Reading ± 10cts
DC Voltage					
Measurement Range <sup>(1)</sup>	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	10µV 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 <sup>(2)</sup>	3MΩ	10MΩ	10MΩ	10MΩ	3MΩ
Resistance					
Measurement Range	6 ranges: 200Ω to 20MΩ	6 ranges: 400Ω to 40MΩ	6 ranges: 400Ω to 40MΩ	6 ranges: 400Ω to 40MΩ	6 ranges: 400Ω to 40MΩ
Resolution	0.1 $\Omega$ to 10k $\Omega$	0.1Ω to 10kΩ	0.1 $\Omega$ to 10k $\Omega$	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
Continuity					
Beeper Activation	≤700Ω	≤40Ω	≤40Ω	≤40Ω	≤40Ω
Diode Test					
Resolution		1mV	1V	1mV	1mV 1mV
Basic Accuracy*	$\pm 2\%$ of Reading $\pm 15$ mV	±2% of Reading ± 15mV	$\pm 2\%$ of Reading $\pm 15mV$	±1% of Reading ± 2cts	±1% of Reading ± 10cts
Capacitance					
Measurement Range	_	5 ranges: 4nF to 40µF	5 ranges: 4nF to 40µF	5 ranges: 4nF to 40µF	5 ranges: 4nF to 40µF
Basic Accuracy*	-	±5% of Reading ± 10cts	±5% of Reading ± 10cts	$\pm 1.5\%$ of Reading $\pm 4$ cts	±1.5% of Reading ± 5cts
Frequency		r			1
Measurement Range	-	_	5 ranges: 10Hz to 200kHz	5 ranges: 100Hz to 400kHz	6 ranges: 100Hz to 2MHz
Basic Accuracy*	-	-	±0.1% of Reading ± 2cts	±0.1% of Reading ± 20cts	±0.1% of Reading ± 10cts
Power Source	Two 1.5V AA batteries	Two 1.5V AA batteries	Two 1.5V AA batteries	9V Alkaline battery	9V Alkaline battery
Battery Life	500 hours	600 hours	600 hours	500 hours	400 hours
MECHANICAL					
Dimensions	7 x 2.5 x 1.7" (177 x 64 x 42mm)	7 x 2.5 x 1.7" (177 x 64 x 42mm)	7 x 2.5 x 1.7" (177 x 64 x 42mm)	7 x 2.5 x 1.7" (177 x 64 x 42mm)	7 x 2.5 x 1.7" (177 x 64 x 42mm)
Weight	0.7 lb (350g)	0.7 lb (350g)	0.7 lb (350g)	0.7 lb (350g)	0.7 lb (350g)
DISPLAY					
Digital Display	2000-count	4000-count	4000-count	4000-count	40,000-count
		40-segment	40-segment	40-segment	40-segment
	-	to boginom			
Analog Bargraph ENVIRONMENTAL	-	le boghiont			
Analog Bargraph ENVIRONMENTAL Operating			32° to 122°F (-10° to 60	°C)	
Analog Bargraph ENVIRONMENTAL	_		32° to 122°F (-10° to 60 -4° to 140°F (-40° to 70	•	
Analog Bargraph ENVIRONMENTAL Operating Temperature Storage	_			•	
Analog Bargraph ENVIRONMENTAL Operating Temperature Storage Temperature SAFETY			-4° to 140°F (-40° to 70	•	
Analog Bargraph ENVIRONMENTAL Operating Temperature Storage Temperature				•	

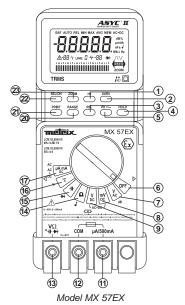
(1) Use on frequency: 0 to 60Hz
(2) For the CA5210/CA5220, on position Velec: base impedance 270kΩ
(3) Automatic recognition of DC or AC
(4) Additional function "ADP": input 0 to 400mVpc for accessories
\* Accuracy dependent on range



# ISTRUC



- 1. Time functions selection
- 2. Monitoring values selection/display
- 3. Display backlighting
- 4. Display hold
- 5. Peak measurement
- 6. Power off
- 7. AC voltage measurement
- 8. 500mV voltage measurement
- 9. DC voltage measurement



- 17. Current measurement up to 500mA
- 18. Current measurement up to 10A (Model MX56")
- 19. Relative mode measurement (Model MX56<sup>III</sup>)
- 20. Range change
- 21. Data sending to a printer
- 22. Power on (selects secondary functions)
- 23. Bargraph scale magnification



10. Input terminal

range 10A

11. Input terminal

input

14. Resistance

15. Capacitance

range µA, mA

measurement

measurement

16. Temperature measure-

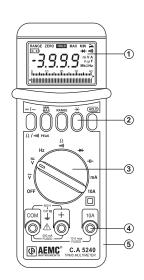
ment (Model MX 57EX)

12. Multimeter reference

13. Input terminal, ranges

11, 12, 13, 14 and 15

Test Leads included with CA5000 Series



Model CA5240

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



#### **ORDERING INFORMATION**

Test Leads included with MX50 Series

DMM Model MX53 <sup>III</sup> (50,000-count, TRMS, 0.1% Accuracy, with Holster)	Cat. #2116.69
DMM Model MX54 <sup>III</sup> (50,000-count, TRMS, 0.05% Accuracy, with Holster)	Cat. #2116.70
DMM Model MX56 <sup>III</sup> (50,000-count, TRMS, 0.025% Accuracy, with Holster)	Cat. #2116.72
DMM Model MX 57 EX TRMS	Cat. #2130.66
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

#### **SOURCE** For All Your Electrical Test & Measurement Instruments



CATALOG NO.

Call the AEMC<sup>®</sup> Instruments Technical Assistance Hotline for immediate consultation with an applications engineer: (800) 343-1391

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