

Multi-Function Installation Tester Model C.A 6116N



Cat. #2138.06

Measures voltage, current via clamp, power, waveforms, and harmonics; includes DataView® software

Multi-function instrument for testing continuity, resistance, insulation, earth and selective earth, loop impedances, type A and AC RCDs, voltage, frequency, current (via a clamp), active power, harmonics, and phase rotation. Stores up to 1,000 tests, which can be downloaded and processed with DataView®(included).

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CONTINUITY / RESISTANCE	
I Rated • Range • Resolution	I > 200 mA • 39.99 Ω • 0.01Ω ± (1.5 % of R + 2 cts) 12 mA • (39.99 and 399.9) Ω • (0.01 and 0.1) Ω • ± (1.5 % of R + 5 cts) with beep
Range • Resolution • Accuracy	4 kΩ • 1 Ω • ±(1.5 % of R + 5 cts) (40 to 400) kΩ • (10 - 100) Ω • ±(1.5 % of R + 2 cts)
INSULATION	
Rated Voltage	U test: (50, 100, 250, 500, and 1000) VDC
Range • Resolution • Accuracy	0.01 MΩ to 2 GΩ • 0 kΩ to 1 MΩ • ± (5 % of R + 3 cts)
Short Circuit Current	≤ 3 mA
3P GROUND	
Range • Resolution • Accuracy	(0.50 to 40) Ω • 0.01 Ω • ± (2 % of R + 10 cts) (40 Ω to 15 kΩ) • (0.1 to 1) Ω • ± (2 % of R + 2 cts) (15 to 40) kΩ • 10 Ω • ± (10 % of R + 2 cts)
Others	Measurement of resistance of auxiliary stakes RH & RS (up to 40 kΩ)
Ufk	Complies with SEV 3569
1P SELECTIVE GROUND	
Range Resolution Accuracy	(0.20 to 39.99) Ω (40 to 399.9) Ω (0.01 – 0.1) Ω ± (10 % of R + 10 cts) (ISel via clamp)
LOOP IMPEDANCE (Zs (L-PE0 AND Zi (L-N OR L-L) – 1P LIVE GROUND	
Live Ground Installation Voltage Frequency	(90 to 500) V (15.8 to 17.5) Hz (45 to 65) Hz

For more details, download the datasheet or user manual at www.aemc.com

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High-current mode with TRIP Zs (L- PE) & Zi (L- N or L - L) Range • Resolution • Accuracy	Max. test current: 7.5 A (0.100 to 0.5) $\Omega \cdot 0.001 \Omega \cdot \pm (10 \% \text{ of } R + 20 \text{ cts})$ (0.5 to 3.999) $\Omega \cdot 0.001 \Omega \cdot \pm (5 \% \text{ of } R + 20 \text{ cts})$ (3.999 to 39.99) $\Omega \cdot 0.01 \Omega \cdot \pm (5 \% \text{ of } R + 2 \text{ cts})$ (39.99 to 399.99) $\Omega \cdot 0.1 \Omega \cdot \pm (5 \% \text{ of } R + 2 \text{ cts})$
NO TRIP mode (Zs (L – PE) Only) Range • Resolution • Accuracy	Test current (6, 9, and 12) mA (as required) (0.20 to 0.99) $\Omega \cdot 0.01 \Omega \cdot \pm (15 \% \text{ of } R + 10 \text{ cts})$ (1.00 to 1.99) $\Omega \cdot 0.01 \Omega \cdot \pm (15 \% \text{ of } R + 3 \text{ cts})$ (2.00 to 39.99) $\Omega \cdot 0.01 \Omega \cdot \pm (10 \% \text{ of } R + 3 \text{ cts})$ (40.00 to 399.9) $\Omega \cdot 0.1 \Omega \cdot \pm (5 \% \text{ of } R + 2 \text{ cts})$ (400 to 3999) $\Omega \cdot 1 \Omega \cdot \pm (5 \% \text{ of } R + 2 \text{ cts})$
Calculation of IK short circuit current (PFC (Zs), I Sc PSCC (Zi))	Fault current and short-circuit current: (0.1 to 20) kA
Others	Measurement of the resistive and inductive components of Zs and Zi impedances
AC and type RCDs	
Installation Voltage Frequency	(90 to 500) V (15.8 to 17.5) Hz and (45 to 65) Hz
I Δ n	10/30/100/500/650/1000 (90 to 280) V or variable ramp and pulse test
N-Trip Test	At $\frac{1}{2}$ I Δ n – Duration 1000 ms or 2000 ms
Ramp Mode	0.2 to 0.5 x I Δ n(Uf) / 0.3 x I Δ n to 1.06 I Δ n increments of 3.3% x I Δ n
Trip test: R: Range / Resolution / Accuracy	0.2 to 0.5 x I Δ n(Uf) / 0.5 x I Δ n / 2 x I Δ n(selective) / 5 x I Δ n Pulse: 0 to 500ms/0.1 and 1ms / 2ms, Ramp mode: 0 to 200ms / 0.1ms / 2 ms
OTHER MEASUREMENTS	
Current by Current Probe C177A	5.0 mA to 199.9 A
Current by Current Probe MN77	(1 mA*) 5.0 mA to 19.99 A
Voltage	0 to 550 VAC/DC / DC and (158 to 500) Hz
Frequency	(10 to 500) Hz
Phase Rotation	(20 to 500) VAC
Active Power	(0 to 110) kW single phase – (0 to 330) kW three-phase Simultaneous display of voltage and current waveforms
Harmonics	Voltage and Current up to 50th order THD-F / THD-R
GENERAL SPECIFICATIONS	
Display	Large 5.7 inch backlit graphic color LCD 320 x 240 pixels
Storage/Communication	USB for data transfer to DataView® software (included)
Power Supply	Rechargeable Lithium-Ion 10.8 V, 5.8 A • h
Battery Life	Up to 30 hours
Protection	IP 53 / IK04
Dimensions Weight	(11 x 7.48 x 5.04) in (280 x 190 x 128) mm 4.85 lbs (2.2 kg)
EMC	IEC61326-1

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