

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).

Cat.#2138.06

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

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

15 Faraday Drive • Dover, NH 03820 USA • (800) 343-1391 • (603) 749-6434 • www.aemc.com
customerservice@aemc.com • techsupport@aemc.com

High-Current Mode with TRIP Zs (L- PE) & Zi (L- N or L - L) Range / Resolution / Accuracy	Max. test current: 7.5A 0.100Ω to 0.5Ω / 0.001Ω/ ±(10% of Reading +20cts) • 0.5Ω to 3.999Ω / 0.001Ω/ ±(5% of Reading +20cts) 3.999 to 39.99Ω/ 0.01Ω / ±(5% of Reading +2cts) • 39.99Ω to 399.99Ω / 0.1Ω/ ±(5% of Reading +2cts)
NO TRIP Mode (Zs (L – PE) only)	Test current 6mA – 9mA – 12mA (as required) 0.20 to 0.99Ω / 0.01Ω / ±(15% of Reading +10cts) 1.00 to 1.99Ω / 0.01Ω / ±(15% of Reading +3cts) 2.00 to 39.99 / 0.01Ω / ±(10% of Reading +3cts) 40.00 to 399.9Ω / 0.1Ω ±(5% of Reading +2cts) 400 to 3999Ω / 1Ω ±(5% of Reading +2cts)
Calculation Of IK Short Circuit Current (PFC (Zs), I Sc PSCC (Zi))	Fault current and short-circuit current: 0.1 to 20kA
Others	Measurement of the resistive and inductive components of Zs and Zi impedances
Type AC and Type A RCDs	
Installation Voltage / Frequency	90 to 500V / 15.8 to 17.5Hz and 45 to 65Hz
IΔn	10/30/100/300/500/650/1000mA (90 to 280V) 10/30/100/300/500mA (280 to 550V) or Variable Ramp and Pulse test
N-trip Test	At ½ IΔn – Duration 1,000ms or 2,000ms
Ramp Mode	0.2 to 0.5 x IΔn(Uf) / 0.3 x IΔn to 1.06 IΔn increments of 3.3% x IΔn
Trip Test: Reading: Range / Resolution / Accuracy	0.2 to 0.5 x IΔn(Uf) / 0.5 x IΔn / 2 x IΔn(selective) / 5 x IΔn Pulse: 0 to 500ms / 0.1 and 1ms / 2ms, Ramp mode: 0 to 200ms / 0.1ms / 2ms
OTHER MEASUREMENTS	
Current By Current Probe C177A	5.0mA to 199.9A (0.5mA with voltage between L and PE)
Current By Current Probe MN77	5.0mA to 19.99A (1mA with voltage between L and PE)
Voltage	0 to 550Vac/dc / DC and 158 to 500Hz
Frequency	10 to 500Hz
Phase Rotation	20 to 500VAC
Active Power	0 to 110kW single-phase / 0 to 330kW 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" backlit graphic color LCD (320x240 pixels)
Storage/Communication	USB for data transfer with DataView software (Included)
Battery	Lithium-Ion 10.8V, 5.8Ah
Battery life	Up to 30 hours
Protection	IP 53 / IK04
Dimension	11x7.48x5.04" (280x190x128mm)
Weight	4.85lbs (2.2kg)

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

15 Faraday Drive • Dover, NH 03820 USA • (800) 343-1391 • (603) 749-6434 • www.aemc.com
customerservice@aemc.com • techsupport@aemc.com



EMC	IEC61326-1
Electrical Safety	IEC61010-1 – 600V CAT III – 300V CAT IV – IEC 61557

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

15 Faraday Drive • Dover, NH 03820 USA • (800) 343-1391 • (603) 749-6434 • www.aemc.com
customerservice@aemc.com • techsupport@aemc.com

