

Multi-Function Installation Tester Model C.A 6117



Cat. #2138.07

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

Multi-function instrument for testing voltage, current via clamp, power, waveforms and harmonics. 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 > 200mA / 39.99Ω / 0.01Ω / ± (1.5% of R + 2cts) 12mA / 39.99Ω & 399.9Ω / 0.01 & 0.1Ω / ± (1.5% of R + 5cts) with beep
Range / Resolution / Accuracy	4 kΩ / 1Ω / ±(1.5% of R + 5cts) 40 kΩ - 400 kΩ / 10Ω - 100Ω / ±(1.5% of R + 2cts)
INSULATION	
Rated Voltage	U _{test} : 50 / 100 / 250 / 500 / 1000VDC
Range / Resolution / Accuracy	0.01MΩ to 2GΩ / 10kΩ to 1MΩ / ±(5% of R + 3cts)
Short Circuit Current	≤ 3mA
GROUND	
3P GROUND Range / Resolution / Accuracy	0.50 to 40Ω / 0.01Ω / ±(2% of R + 10cts) 40Ω to 15kΩ / 0.1 to 1Ω / ±(2% of R + 2cts) 15 to 40kΩ / 10Ω / ±(10% of R + 2cts)
Others	Measurement of resistance of auxiliary stakes RH & RS (up to 40kΩ)
U_{fk}	Complies with SEV 3569
1P SELECTIVE GROUND Range / Resolution / Accuracy	0.20 to 39.99Ω - 40 to 399.9Ω / 0.01 to 0.1Ω / ±(10% of R + 10cts) (ISel via clamp)
LOOP IMPEDANCE (Z _s (L-PE0 AND Z _i (L-N OR L-L) – 1P LIVE GROUND	
Live Ground Installation Voltage / Frequency	90 to 500 V / 15.8 to 17.5Hz - 45 to 65Hz
High-current mode with TRIP Z_s (L- PE) & Z_i (L- N or L - L) Range / Resolution / Accuracy	Max. test current: 7.5 A (0.050) 0.100 to 0.5Ω / 0.001Ω / ±(10% of R + 20cts) • 0.5Ω to 3.999Ω / 0.001Ω / ±(5% of R + 20cts) 3.999 to 39.99Ω / 0.01Ω / ±(5% of R + 2cts) • 39.99 to 399.99Ω / 0.1Ω / ±(5% of R + 2cts)
NO TRIP mode (Z_s (L – PE) Only)	Test current 6mA – 9mA – 12mA (as required) 0.20 to 0.99Ω / 0.01Ω / ±(15% of R + 10cts) 1.00 to 1.99Ω / 0.01Ω / ± (15% of R + 3cts) 2.00 to 39.99 / 0.01Ω / ± (10% of R + 3cts) 40.00 to 399.9Ω / 0.1Ω ± (5% of R + 2cts) 400 to 3999Ω / 1Ω ±(5% of R + 2cts)

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

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Calculation of IK short circuit current (PFC (Zs), I Sc PSCC (Zi))	Fault current and short-circuit current: 0.1 to 20kA
Integrated Fuse Table	Yes
Voltage drop V%(Zi)	-40% to +40%
Others	Measurement of the resistive and inductive components of Zs and Zi impedances
AC and type RCDs	
Installation voltage / Frequency	90 to 500V / 15.8 to 17.5Hz and 45 to 65Hz
IΔn	10/30/100/500/650/1,000 (90V - 280V) or variable ramp and pulse test
N-trip test	At ½ IΔn – Duration 1000ms or 2000ms
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: R: 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 200 ms / 0.1 ms / 2 ms
B-Type RCDs	
Installation Voltage / Frequency	90 to 275V / 15.8 to 17.5Hz and 45 to 65Hz
IΔn: ramp / pulse 2 x IΔn pulse 4 x IΔn	10/30/100/500mA 10/30/100/500 mA with pulse 4 IΔn Duration: 150 ms with 4 x IΔn or 300 ms with 2 x IΔn
Test in ramp mode	0.2 x IΔn to 2.2 x IΔn
Trip test: 2 x IΔn 4 x IΔn	IΔn ≤ 200 mA: 2.2 x 2 x IΔn IΔn ≤ 200 mA: 1.1 x 2 x IΔn IΔn ≤ 100 mA: 2.2 x 4 x IΔn
OTHER MEASUREMENTS	
Current by Current Probe C177A	5.0mA to 199.9A
Current by Current Probe MN77	(1mA*) 5.0mA to 19.99A
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 320 x 240 pixels
Storage/Communication	USB for data transfer to DataView software (included)
Power Supply	Rechargeable battery Lithium-Ion 10.8V, 5.8Ah
Battery Life	Up to 30 hours
Protection	IP 53 / IK04
Dimension / Weight	11 x 7.48 x 5.04" (280 x 190 x 128mm); 4.85 lbs (2.2 kg)

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

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