

## 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

| CONTINUITY / RESISTANCE  |  |
|--|--|
| I Rated / Range / Resolution                                   | I > 200mA / 39.99 Ω / 0.01Ω / ± (1.5% of R + 2cts)<br>12mA / 39.99Ω & 399.9Ω / 0.01 & 0.1Ω /<br>± (1.5% of R + 5cts) with beep         |
| Range / Resolution / Accuracy                                  | 4kΩ / 1Ω / ±(1.5% of R + 5cts) 40kΩ - 400kΩ / 10Ω - 100Ω /<br>±(1.5% of R + 2 cts)   |
| 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  | ≤ 3 mA   |
| GROUND   |  |
| 3P GROUND<br>Range / Resolution / Accuracy                     | 0.50Ω to 40Ω / 0.01Ω / ±(2 % of R + 10 cts) 40Ω to 15kΩ /<br>0.1Ω to 1Ω / ±(2% of R + 2cts)<br>15kΩ to 40kΩ / 10Ω / ±(10% of R + 2cts) |
| Others   | Measurement of resistance of auxiliary stakes RH & RS (up to 40kΩ)   |
| Ufk  | Complies with SEV 3569   |
| 1P SELECTIVE GROUND<br>Range / Resolution / Accuracy           | 0.20 to 39.99Ω - 40 to 399.9Ω / 0.01 – 0.1Ω /<br>±(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<br>Installation Voltage / Frequency                | 90 to 500V / 15.8 to 17.5Hz - 45 to 65Hz   |

For more details, download the datasheet or user manual at [www.aemc.com](http://www.aemc.com)

15 Faraday Drive • Dover, NH 03820 USA • (800) 343-1391 • (603) 749-6434 • [www.aemc.com](http://www.aemc.com)

[customerservice@aemc.com](mailto:customerservice@aemc.com) • [techsupport@aemc.com](mailto:techsupport@aemc.com)

|   |   |
|---|---|
| High-current mode with TRIP<br>Zs (L- PE) & Zi (L- N or L - L)<br>Range / Resolution / Accuracy | Max. test current: 7.5A<br>(0.050) 0.100Ω to 0.5Ω / 0.001Ω / ±(10% of R + 20cts) • 0.5Ω to 3.999Ω / 0.001Ω / ±(5 % of R + 20 cts) 3.999 to 39.99Ω / 0.01Ω / ±(5% of R + 2cts) • 39.99Ω to 399.99Ω / 0.1 Ω / ±(5% of R + 2cts)                                     |
| NO TRIP mode (Zs (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 + 3 cts)<br>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) |
| 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   |
| AC and type RCDs  |   |
| Installation Voltage / Frequency  | 90 to 500V / 15.8 to 17.5Hz and 45 to 65Hz  |
| IΔn   | 10/30/100/500/650/1000 (90V - 280V) or variable ramp and pulse test   |
| N-Trip Test   | At ½ IΔn – Duration 1000 ms or 2000 ms  |
| 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:<br>Range / Resolution / Accuracy  | 0.2 to 0.5 x IΔn(Uf) / 0.5 x IΔn / 2 x IΔn(selective) / 5 x IΔn<br>Pulse: 0 to 500ms/0.1 and 1ms / 2ms, Ramp mode: 0 to 200ms / 0.1ms / 2 ms  |
| <b>OTHER MEASUREMENTS</b>   |   |
| 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<br>Simultaneous display of voltage and current waveforms   |
| Harmonics   | Voltage and Current / up to 50th order / THD-F / THD-R  |
| <b>GENERAL SPECIFICATIONS</b>   |   |
| 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 Lithium-Ion 10.8V, 5.8Ah   |
| Battery Life  | Up to 30 hours  |
| Protection  | IP 53 / IK04  |
| Dimensions / Weight   | 11 x 7.48 x 5.04" (280 x 190 x 128mm) / 4.85 lbs (2.2kg)  |
| 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](http://www.aemc.com)

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