TEST AND MEASUREMENT (LAB) INSTRUMENTS MULTIFUNCTION INSTALLATION TESTERS



CE

MODELS CA 6116N & CA 6117

Safety for your electrical installations and high performance with these unique instruments



MODELS	CA 6116N	CA 6117	
	CONTINUITY / RESIST		
I Rated / Range / Resolution	$I > 200 \text{ mA} / 39.99 \Omega / 0.01 \Omega / \pm (1.5 \% \text{ of measurement} + 2 \text{ cts});$ 12 mA / 39.99 $\Omega \& 399.9 \Omega / 0.01 \& 0.1 \Omega / \pm (1.5 \% \text{ of measurement} + 5 \text{ cts})$		
Range / Resolution / Accuracy		$(40 \text{ to } 400 \text{ k}\Omega) / (10 \text{ to } 100 \Omega) / \pm (1.5 \% \text{ of measurement} + 2 \text{ cts})$	
nange / neconation / Accuracy			
Rated Voltage	(50, 100, 250, 500, 1000) V₀c		
Range / Resolution / Accuracy	0.01 M Ω to 2 G Ω / 10 k Ω to 1 M Ω / ± (5 % of measurement + 3 cts)		
Short-Circuit Current	≤ 3 mA		
Deint	GROUND RESISTAN	CE	
3-Point Range / Resolution / Accuracy	(0.50 to 40) Ω / 0.01 Ω / ± (2 % of measurement +	10 cts); 40 Ω to 15 k Ω / (0.1 to 1) Ω / \pm (2 % of measurement + 2 cts	
Ufk	Complies with SEV 3569		
1-Point Selective Range / Resolution / Accuracy	(0.20 to 39.99) Ω to (40 to 399.9) Ω / (0.01	to 0.1) Ω / ± (10 % of measurement + 10 cts) (ISel via clamp)	
	LOOP IMPEDANCE (Zs (L-PE) & Zi (L-N or L-	L)) / 1-POINT LIVE GROUND	
Live Ground Installation Voltage / Frequency	(90 to 500) V / (15.8 to 17.5) Hz and (45 to 65) Hz	
High-current mode with TRIP Zs (L-PE) & Zi (L-N or L-L) Range / Resolution / Accuracy	$(0.100 \text{ to } 0.5) \Omega / 0.001 \Omega / \pm (10 \% \text{ of measurement})$	ax. test current: 7.5 A t + 20 cts); (0.5 to 3.999) Ω / 0.001 Ω / ± (5 % of measurement + 20 cts nt + 2 cts); (39.9 to 399.9) Ω / 0.1 Ω / ± (5 % of measurement + 2 cts)	
No TRIP Mode <i>(Zs (L-PE) only)</i> Range / Resolution / Accuracy	Test current: (6, 9, or 12) mA (as required) (0.20 to 0.99) $\Omega / 0.01 \Omega / \pm (15\%)$ of measurement + 10 cts) (1.00 to 1.99) $\Omega / 0.01 \Omega / \pm (15\%)$ of measurement + 3 cts) (2.00 to 39.99) $\Omega / 0.01 \Omega / \pm (10\%)$ of measurement + 3 cts) (40.0 to 399.9) $\Omega / 0.1 \Omega / \pm (5\%)$ of measurement + 2 cts) (400 to 3999) $\Omega / 1 \Omega / \pm (5\%)$ of measurement + 2 cts)		
Calculation of Ik Short-Circuit Current PFC <i>(Zs)</i> , I Sc PSCC <i>(Zi)</i>	Fault current and short-circuit current: 0.1 A to 6 kA		
Integrated Fuse Table	_	Yes	
Voltage Drop ∆V % <i>(Zi)</i>	-	(-40 to 40) %	
Others		inductive components of the Zs and Zi impedances	
nstallation Voltage / Frequency		-	
5 1 5	(90 to 500) V / (15.8 to 17.5) Hz and (45 to 65) Hz (6 / 10 / 30 / 100 / 300 / 500 / 650 / 1000) mA (90 to 280) V or variable –		
lΔn	(6 / 10 / 30 / 100 / 300 / 500) mA (280 to 550) V or variable Ramp and pulse test		
No TRIP Test	at ½ I∆n – Duration: (1000 or 2000) ms		
Ramp Mode	(0.2 to 0.5) x I∆n (Uf) / (0.3 to 1.06) x I∆n in increments of 3.3 % x I∆n		
Range / Resolution / Accuracy		measurement + 10 cts); 40 Ω to 15 k Ω / (0.1 to 1) Ω / 5 to 40) k Ω / 10 Ω / ± (10 % of measurement + 2 cts)	
	B-TYPE RCDs		
nstallation Voltage / Frequency	-	(90 to 275) V / (15.8 to 17.5) Hz and (45 to 65) Hz	
l∆n: Ramp / Pulse 2 x l∆n Pulse 4 x l∆n	-	(6 / 10 / 30 / 100 / 300 / 500) mA and (10 / 30 / 100) mA with pulse 4 I Δ n Duration: 150 ms with 4 x I Δ n or 300 ms with 2 x I Δ	
Test in Ramp Mode	-	(0.2 to 2.2) x l∆n	
TRIP Test: 2 x l∆n & 4 x l∆n	-	I∆N ≤ 200 mA: 2.2 x 2 x I∆n I∆N > 200 mA: 1.1 x 2 x I∆n I∆N ≤ 100 mA: 2.2 x 4 x I∆n	
		Specifications continued on next pag	



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TEST AND MEASUREMENT (LAB) INSTRUMENTS

MULTIFUNCTION INSTALLATION TESTERS

CA 6116N CA 6117	
OTHER MEASUREMENTS	
5 mA to 199.9 A	
(1 mA*) 5.0 mA to 19.99 A	
(0 to 550) Vac/dc and (15.8 to 500) Hz	
(15.8 to 500) Hz	
(20 to 500) Vac	
(5 to 110) kW single-phase, (0 to 330) kW three-phase Simultaneous display of voltage and current waveforms	
voltage and current / up to 50 th order / THD-F / THD-R	
GENERAL SPECIFICATIONS	
Large 5.7 in backlit graphic color, LCD screen, 320 x 240 points	
Via USB for data transfer and report creation	
Li-ion 10.8 V rated 5.8 A·h	
Up to 30 h	
(11.02 x 7.48 x 5.04) in (280 x 190 x 128) mm / 4.85 lb (2.2 kg)	
SAFETY	
IEC 61010 -1 / 600 V CAT III & 300 V CAT IV / IEC 61557	
IP53 / IK04	
IEC 61326-1	
	OTHER MEASUREMENTS5 mA to 199.9 A(1 mA*) 5.0 mA to 19.99 A(0 to 550) VAc/DC and (15.8 to 500) Hz(15.8 to 500) Hz(20 to 500) VAC(5 to 110) kW single-phase, (0 to 330) kW three-phaseSimultaneous display of voltage and current waveformsvoltage and current / up to 50 th order / THD-F / THD-RGENERAL SPECIFICATIONSLarge 5.7 in backlit graphic color, LCD screen, 320 x 240 pointsVia USB for data transfer and report creation Li-ion 10.8 V rated 5.8 A·h Up to 30 h(11.02 x 7.48 x 5.04) in (280 x 190 x 128) mm / 4.85 lb (2.2 kg)SAFETYIEC 61010 -1 / 600 V CAT III & 300 V CAT IV / IEC 61557 IP53 / IK04

*If a voltage is connected to the instrument

Consult factory for NIST Calibration prices.

FEATURES

- Testing according to the international standards: IEC 60364-6, NF C 15-100, VDE 100, XP C 16-600, etc.
- Simple, reliable connection supported by contextual help for each function, including all the connection diagrams
- Suitable for all neutral systems (TT, TN, IT)
- Type-B RCD testing available (Model CA 6117)
- · Li-ion battery for a longer battery life
- Measurements: voltage, current via clamp, power, and harmonics
- Measurement of voltage drop for correct sizing of conductor diameters
- Loop measurement with 1 m Ω resolution
- 3-level storage
- Includes DataView[®] analysis software for programming, downloading, storing and report generation of test data
- Integrated fuse table for quick reading of the results on the instrument

PRODUCT INCLUDES

Carrying bag, US power cord and charger, Li-ion battery pack, USB A/B cable, set of (3) 3-prong color-coded *(red, blue, green)* safety voltage leads, set of (3) color-coded *(red, blue, green)* test probes, set of (3) color-coded *(red/blue/green)* alligator clips, set of (2) color-coded *(red/black)* safety leads 4 mm straight plug, 3-prong US measurement cord, remote test probe, wrist strap, hands-free strap, multilingual safety card, and a USB drive with DataView®software and user manual.



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SPECIAL ORDERS ONLY

CAT. #	DESCRIPTION	
2138.06	Multi-Function Installation Tester Model CA 6116N (US) (includes DataView® Software) - SPECIAL ORDER ONLY	
2138.07	Multi-Function Installation Tester Model CA 6117 (US) (includes DataView® Software) - SPECIAL ORDER ONLY	
2138.10	Multi-Function Installation Tester Model CA 6116N Kit (US) (includes C177A, and DataView® Software) - SPECIAL ORDER ONLY	
2138.11	Multi-Function Installation Tester Model CA 6117 Kit (US) (includes C177A, and DataView® Software) - SPECIAL ORDER ONLY	



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