TEST AND MEASUREMENT (LAB) INSTRUMENTS

MULTIFUNCTION INSTALLATION TESTERS

MODELS CA 6116N & CA 6117

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





CDECIEICATIONS

SPECIFICATIONS				
MODELS	CA 6116N	CA 6117		
CONTINUITY/RESISTANCE				
I Rated/Range/Resolution	I > 200 mA / 39.99 Ω / 0.01 Ω / \pm (1.5 % of measurement + 2 cts); 12 mA / 39.99 Ω & 399.9 Ω / 0.01 & 0.1 Ω / \pm (1.5 % of measurement + 5 cts) with beep			
Range/Resolution/Accuracy	4 k Ω / 1 Ω / \pm (1.5 % of measurement + 5 cts); (40	to 400 k Ω) / (10 to 100 Ω) / \pm (1.5 % of measurement + 2 cts)		
INSULATION				
Rated Voltage	50 Vdc, 100 Vdc, 250 Vdc, 500 Vdc, 1000 Vdc			
Range/Resolution/Accuracy	0.01 M Ω to 2 G Ω / 10 k Ω to 1 M Ω / \pm (5 % of measurement + 3 cts)			
Short-Circuit Current	≤ 3 mA			
GROUND RESISTANCE	(0.50.1-40) 0.70.04.07 (0.07-4)	10 40 0 15 45 10 1/04 15 4) 0 1 1/0 1/1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2		
3-Point Range/Resolution/Accuracy	(0.50 to 40) Ω / 0.01 Ω / \pm (2 % of measurement + 10 cts); 40 Ω to 15 k Ω / (0.1 to 1) Ω / \pm (2 % of measurement + 2 cts) (15 to 40) k Ω / 10 Ω / \pm (10 % of measurement + 2 cts)			
Ufk	Complies with SEV 3569			
1-Point Selective Range/Resolution/Accuracy	, , , , , , , , , , , , , , , , , , , ,	.1) Ω / \pm (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	, , ,	to 17.5) Hz and (45 to 65) Hz		
HIGH-CURRENT MODE WITH TRIP 2	, , , , , , , , , , , , , , , , , , , ,			
Range/Resolution/Accuracy	Max. test current: 7.5 A (0.050) (0.100 to 0.5) Ω / 0.001 Ω / \pm (10 % of measurement + 20 cts); (0.5 to 3.999) Ω / 0.001 Ω / \pm (5 % of measurement + 20 cts); (3.999 to 39.99) Ω / 0.01 Ω / \pm (5 % of measurement + 2 cts); (39.99 to 399.99) Ω / 0.1 Ω / \pm (5 % of measurement + 2 cts)			
No TRIP Mode (Zs (L-PE) only)	Test current: (6, 9, or 12) mA (as required) (0.20 to 0.99) Ω / 0.01 Ω / \pm (15 % of measurement + 10 cts) (1.00 to 1.99) Ω / 0.01 Ω / \pm (15 % of measurement + 3 cts) (2.00 to 39.99) Ω / 0.01 Ω / \pm (10 % of measurement + 3 cts) (40.00 to 399.9) Ω / 0.1 Ω / \pm (5 % of measurement + 2 cts) (400 to 3999) Ω / 1 Ω / \pm (5 % of measurement + 2 cts)			
Calculation of Ik Short-Circuit Current PFC (Zs), I Sc PSCC (Zi)	Fault current and short-circuit current: 0.1 A to 20 kA			
Integrated Fuse Table	_	Yes		
Voltage Drop ΔV % (Zi)	-	(-40 to 40) %		
Others	Measurement of the resistive and inductive components of the Zs and Zi impedances			
AC & A-TYPE RCDs				
Installation Voltage/Frequency	(90 to 500) V / (15.8 to 17.5) Hz and (45 to 65) Hz			
IΔn	(10/30/100/300/500/650/1000) mA (90 to 280) V or variable – (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 l∆n (Uf) / 0.3 x l∆n t	to 1.06 x IΔn in increments of 3.3 % x IΔn		
TRIP TIME MEASUREMENT	(0.50 L, 40) 0 / 0.04 0 /	(0.0/ - f		
Range/Resolution/Accuracy	(0.50 to 40) Ω / 0.01 Ω / \pm (2 % of measurement + 10 cts); 40 Ω to 15 k Ω / (0.1 to 1) Ω / \pm (2 % of measurement + 2 cts); (15 to 40) k Ω / 10 Ω / \pm (10 % of measurement + 2 cts)			
B-TYPE RCDs	(10 10 10) 111 1	- (10 /0 01 moded 0 mont 1 2 000)		
Installation Voltage/Frequency	_	(90 to 275) V / (15.8 to 17.5) Hz and (45 to 65) Hz		
IΔn: Ramp/Pulse 2 x IΔn Pulse 4 x IΔn	_	(10/30/100/300/500) mA and (10/30/100) 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		
		ΙΔΙΝ ≥ ΤΟΟ ΠΙΑ. Ζ.Ζ Χ 4 Χ ΙΔΙΙ		



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MULTIFUNCTION INSTALLATION TESTERS

SPECIFICATIONS - CONTINUED

MODELS	CA 6116N	CA 6117	
OTHER MEASUREMENTS			
Current by Clamps C177	5.0 mA to 199.9 A		
Current by Clamp MN77	(1 mA*) 5.0 mA to 19.99 A		
Voltage	(0 to 550) Vac/dc and (15.8 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 50 th order / THD-F / THD-R		
GENERAL SPECIFICATIONS			
Display	Large 5.7 in backlit graphic color, LCD screen, 320 x 240 points		
Storage/Communication	Via USB for data transfer and report creation		
Power Supply (rechargeable battery)	Li-ion 10.8 V rated 5.8 A·h		
Battery Life	Up	to 30 h	
Dimensions/Weight	(11.02 x 7.48 x 5.04) in (280 x 190 x 128) mm / 4.85 lb (2.2 kg)		
SAFETY			
Safety Rating	IEC 61010 -1/600 V CAT III & 300 V CAT IV/IEC 61557		
Ingress Protection	IP53 / IK04		
EMC	IEC 61326-1		

^{*}If a voltage is connected to the instrument

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, waveforms 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.



SPECIAL ORDERS ONLY

CATALOG NO.	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, DataView® Software) - SPECIAL ORDER ONLY
2138.11	Multi-Function Installation Tester Model CA 6117 Kit (US) (includes C177A, DataView® Software) - SPECIAL ORDER ONLY

