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





SPECIFICATIONS

MODELS	CA 6116N	CA 6117	
CONTINUITY/RESISTANCE			
I Rated/Range/Resolution	I > 200mA / 39.99Ω / 0.01Ω / \pm (1.5% of measurement + 2cts); 12mA/39.99Ω & 399.9Ω / 0.01 & 0.1Ω / \pm (1.5% of measurement + 5cts) with beep		
Range/Resolution/Accuracy	$4k\Omega/1\Omega/\pm(1.5\%)$ of measurement + 5cts); 40 to $400k\Omega/10$ to $100\Omega/\pm(1.5\%)$ of measurement + 2cts)		
INSULATION			
Rated Voltage		50, 500, 1000Vpc	
Range/Resolution/Accuracy	$0.01 M\Omega$ to $2 G\Omega$ / $10 k\Omega$ to $1 M\Omega$ / $\pm (5\%$ of measurement + 3cts)		
Short-Circuit Current	≤ 3mA		
GROUND RESISTANCE	0.501, 400 / 0.010 / //00/ . f) 400 L 45 0 / 0 4 L 40 / / / / / /	
3-Point Range/Resolution/Accuracy	0.50 to 40Ω / 0.01Ω / \pm (2% of measurement + 10cts); 40Ω to $15k\Omega$ / 0.1 to 1Ω / \pm (2% of measurement + 2cts); 15 to $40k\Omega$ / 10Ω / \pm (10% of measurement + 2cts)		
Ufk	Complies with SEV 3569		
1-Point Selective Range/Resolution/Accuracy	0.20 to 39.99Ω – 40 to 399.9Ω / 0.01 to 0.1Ω / \pm (10% of measurement + 10cts) (ISel via clamp)		
	L-N or L-L)) / 1-POINT LIVE GROUND		
Live Ground Installation Voltage/Frequency	90 to 500V / 15.8 to 17.5Hz – 45 to 65Hz		
HIGH-CURRENT MODE WITH TRIP 2	, , , , ,		
Range/Resolution/Accuracy	Max. test current: 7.5 A (0.050) 0.100 to $0.5\Omega / 0.001\Omega / \pm (10\% \text{ of measurement} + 20 \text{cts})$; 0.5 to 3.999Ω / 0.001Ω / $\pm (5\% \text{ of measurement} + 20 \text{cts})$; 3.999 to 39.99Ω / 0.1Ω / $\pm (5\% \text{ of measurement} + 2 \text{cts})$		
No TRIP Mode (Zs (L-PE) only)	Test current: $6mA - 9mA - 12mA$ (as required) 0.20 to $0.99\Omega / 0.01\Omega / \pm (15\%$ of measurement + 10cts) 1.00 to $1.99\Omega / 0.01\Omega / \pm (15\%$ of measurement + 3cts) 2.00 to $39.99\Omega / 0.01\Omega / \pm (10\%$ of measurement + 3cts) 40.00 to $399.9\Omega / 0.1\Omega / \pm (5\%$ of measurement + 2cts) 400 to $399.9\Omega / 1\Omega / \pm (5\%$ of measurement + 2cts)		
Calculation of Ik Short-Circuit Current PFC (Zs), I Sc PSCC (Zi)	Fault current and short-circuit current: 0.1A to 20kA		
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 500V / 15.8 to 17.5Hz and 45 to 65Hz		
I∆n	10/30/100/300/500/650/1000mA (90 to 280V) or variable — 10/30/100/300/500mA (280 to 550V) or variable Ramp and pulse test		
No TRIP Test	at $\frac{1}{2}$ I Δ n – Duration: 1000 or 2000ms		
Ramp Mode	0.2 to 0.5 x l Δ n (Uf) / 0.3 x l Δ n to 1.06 x l Δ n in increments of 3.3% x l Δ n		
TRIP TIME MEASUREMENT			
Range/Resolution/Accuracy	0.50 to 40Ω / 0.01Ω / \pm (2% of measurement + 10cts); 40Ω to $15k\Omega$ / 0.1 to 1Ω / \pm (2% of measurement + 2cts); 15 to $40k\Omega$ / 10Ω / \pm (10% of measurement + 2cts)		
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	-	10/30/100/300/500mA and 10/30/100mA with pulse 4l∆n Duration: 150ms with 4 x l∆n or 300ms with 2 x l∆n	
Test in Ramp Mode	-	0.2 x l∆n to 2.2 x l∆n	
TRIP Test: 2 x ΙΔn & 4 x ΙΔn	_	$I\Delta N \le 200 mA: 2.2 \times 2 \times I\Delta n$ $I\Delta N > 200 mA: 1.1 \times 2 \times I\Delta n$ $I\Delta N \le 100 mA: 2.2 \times 4 \times I\Delta n$	
		Specifications continued on next page	





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TEST AND MEASUREMENT (LAB) INSTRUMENTS

MULTIFUNCTION INSTALLATION TESTERS

SPECIFICATIONS - CONTINUED

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

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











DataView[®]

PRODUCT INCLUDES

Carrying bag, US power cord and charger, Li-lon 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) colorcoded (red/black) safety leads 4mm 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 a user manual.



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-lon 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 1mΩ 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

SPECIAL ORDERS ONLY

OF LOWIE OFFICE	JI BOINE ONDERIO ONEI		
CATALOG NO.	DESCRIPTION		
2138.06	Multi-Function Installation Tester Model CA 6116N (US) (includes DataView® Software)		
2138.07	Multi-Function Installation Tester Model CA 6117 (US) (includes DataView® Software)		
2138.10	Multi-Function Installation Tester Model CA 6116N Kit (US) (includes C177A, DataView® Software)		
2138.11	Multi-Function Installation Tester Model CA 6117 Kit (US) (includes C177A, DataView® Software)		

