

Models C.A 6116N & C.A 6117

Safety for your electrical installations and high performance of a unique instrument



► SPECIFICATIONS

MODELS	C.A 6116N	C.A 6117
CONTINUITY / RESISTANCE		
I Rated/Range/Resolution	I > 200mA/39.99Ω/0.01Ω/±(1.5% of measurement + 2cts) 12mA/39.99Ω & 399.9Ω/0.01 & 0.1Ω/±(1.5% of measurement + 5cts) with beep	
Range/Resolution/Accuracy	4kΩ/1Ω/±(1.5% of measurement + 5cts) 40 to 400kΩ/10 to 100Ω/±(1.5% of measurement + 2cts)	
INSULATION		
Rated Voltage	50/100/250/500/1000V _{dc}	
Range/Resolution/Accuracy	0.01MΩ to 2GΩ/10kΩ to 1MΩ/±(5% of measurement + 3cts)	
Short-Circuit Current	≤ 3mA	
GROUND RESISTANCE		
3-Point		
Range/Resolution/Accuracy	0.50 to 40Ω/0.01Ω/±(2% of measurement + 10cts) 40Ω to 15kΩ/0.1 to 1Ω/±(2% of measurement + 2cts) 15 to 40kΩ/10Ω/±(10% of measurement + 2cts)	
U _{fk}	Complies with SEV 3569	
1-Point Selective		
Range/Resolution/Accuracy	0.20 to 39.99Ω – 40 to 399.9Ω/0.01 to 0.1Ω/±(10% of measurement + 10cts) (I _{SEL} via clamp)	
LOOP IMPEDANCE (Z _S (L-PE) & Z _I (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 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 measurement + 20cts); 0.5 to 3.999Ω/0.001Ω/±(5% of measurement + 20cts) 3.999 to 39.99Ω/0.01Ω/±(5% of measurement + 2cts); 39.99 to 399.99Ω/0.1Ω/±(5% of measurement + 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 measurement + 10cts) 1.00 to 1.99Ω/0.01Ω/±(15% of measurement + 3cts) 2.00 to 39.99Ω/0.01Ω/±(10% of measurement + 3cts) 40.00 to 399.9Ω/0.1Ω/±(5% of measurement + 2cts) 400 to 3999Ω/1Ω /±(5% of measurement + 2cts)	
Calculation of I _k Short-Circuit Current (PFC (Z _s)), I _{SC} PSCC (Z _i)	Fault current and short-circuit current: 0.1A to 20kA	
Integrated Fuse Table	–	Yes
Voltage Drop ΔV% (Z _i)	–	-40% to 40%
Others	Measurement of the resistive and inductive components of the Z _s and Z _i impedances	
AC & A-TYPE RCDS		
Installation Voltage/Frequency	90 to 500V/15.8 to 17.5Hz and 45 to 65Hz	
IΔn	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 ½ IΔn – Duration: 1000 or 2000ms	
Ramp Mode	0.2 to 0.5 x IΔn (U _f)/0.3 x IΔn to 1.06 x IΔn in increments of 3.3% x IΔn	
TRIP Time Measurement		
Range/Resolution/Accuracy	0.50 to 40Ω/0.01Ω/±(2% of measurement + 10cts) 40Ω to 15kΩ/0.1 to 1Ω/±(2% of measurement + 2cts) 15 to 40kΩ/10Ω/±(10% of measurement + 2cts)	
B-TYPE RCDS		
Installation Voltage/Frequency	–	90 to 275V/15.8 to 17.5Hz and 45 to 65Hz
IΔn:	–	10/30/100/300/500mA and 10/30/100mA with pulse 4IΔn
Ramp/Pulse 2 x IΔn Pulse 4 x IΔn	–	Duration: 150ms with 4 x IΔn or 300ms 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 ≤ 200mA: 2.2 x 2 x IΔn IΔN > 200mA: 1.1 x 2 x IΔn IΔN < 100mA: 2.2 x 4 IΔN

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/DC 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 Supply (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)
Protection	IP53/IP04
EMC	IEC 61326-1
Electrical Safety	IEC 61010 -1/600V CAT III & 300V CAT IV/IEC 61557

*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 thanks to the contextual help for each function, including all the connection diagrams
- Suitable for all neutral systems (TT, TN, IT)
- Type-B RCD testing available (Model C.A 6117)
- Integrated fuse table for quick reading of the results on the instrument
- 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 1mΩ resolution
- 3-level storage
- Includes FREE DataView® analysis software for programming, downloading, storing and report generation of test data
- Built-in fuse table (Model C.A 6117)



► PRODUCT INCLUDES

C.A 6116N & C.A 6117

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

CATALOG NO.	DESCRIPTION
2138.06	Multi-Function Installation Tester Model C.A 6116N (Includes DataView® software)
2138.07	Multi-Function Installation Tester Model C.A 6117 (Includes DataView® software)
2138.10	Multi-Function Installation Tester Model C.A 6116N Kit (US) (includes C177A, DataView® software)
2138.11	Multi-Function Installation Tester Model C.A 6117 Kit (US) (includes C177A, DataView® software)



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