

C.A 6131 - C.A 6133

Electrical installation testers



Test the electrical safety of your installations

- Earth measurement by stake and loop methods
- Continuity measurement at 0.2A
- Insulation testing
- RCD testing: current and trip time
- Automatic test sequences
- Storage of test results
- ANDROID application for report generation
- Power supply by mains-rechargeable batteries, USB socket or vehicle cigarette lighter





















ELECTRICAL INSTALLATION TESTERS

ERGONOMICS AND FUNCTIONS

Designed for checking safety on electrical installations, the C.A 6131 and C.A 6133 can be used to test a new installation before powering it up, check an existing installation, whether in operation or not, and to troubleshoot a dysfunction.

For inspection organizations, these portable instruments are simple, effective and, above all, compliant with the applicable standards.



3 voltage inputs including one for the remote-control probe.

A specific 4-point socket for the MN73A current clamp (option).



Magnetized casing for magne-

Activation of backlighting/tic mounting. Buzzer activation/deactivation. Bluetooth activation. LED showing voltage Cable compensation.

Data storage.





Neck strap for hands-free use.



Built-in stand for benchtop use..



Charging via universal USB connections!

C.A 6133 CHAUVING •••)) 0 0 Ω ***)) MEM CLR LOOP RCD TEST Φ AUTO Backlit LCD Direct access to the TEST button. Navigation keys. Rereading/deletion of measurements. display. recorded measurements.

Functions



the measurement is below the

threshold, so they do not have





Loop



Insulation



Continuity

to look at the screen.

Compliant with the IEC 61557-4 This function allows you to standard. If the buzzer is active, measure an earthy resistance users are informed by a beep if using the stake méthod when the electrical installation to be tested is not powered up (new installation, for example). It is

only available on the C.A 6133.

Earth

Loop measurement is performed in Trip or No Trip mode. On a TN or TT installation, loop impedance measurement can be used to size the protective systems for the installation (fuses or RCDs), particularly in terms of breaking capacity. On a TT installation, this measurement serves to determine the value of the earth resistance without setting up any stakes and without having to power down the installation.

The user selects the test voltage and chooses the set of alarm thresholds. A visual indication instantaneously shows whether the test is OK or not: if the measurement is higher than the threshold, the VLED lights up. If the measurement is lower than the threshold, the X LED lights up.

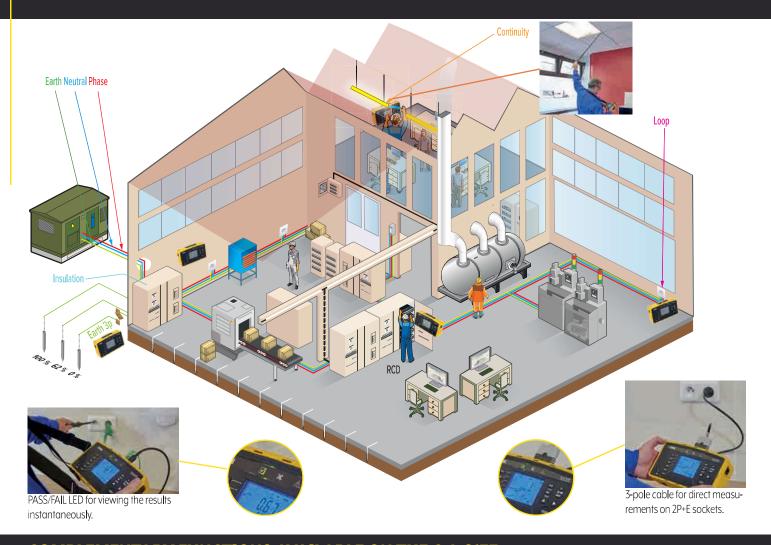
The comprehensive RCD test can be used with type A and AC RCDs. 3 types of test are available

- No Trip test,

RCD

- Trip test in pulse mode, - Trip test in ramp mode.

CHECK THE COMPLIANCE OF ELECTRICAL INSTALLATIONS WITH A SINGLE INSTRUMENT



COMPLEMENTARY FUNCTIONS AVAILABLE ON THE C.A 6133

Automatic test sequence

Save time! The AUTO-RCD automatic test sequence performs the following operations:

- the No-Trip test, the Trip test at 1 x $I\Delta n$ and the Trip test at 5 x $I\Delta n$,
- if necessary, the Trip test in ramp mode. A single press on the backup buttons saves all the tests performed.

Another automatic test sequence is also available which performs the following tests, successively:

LOOP - RCD - INSULATION



Current measurement

The MN73A clamp is recognized automatically when it is connected, as is the measurement calibre.



Data storage



The data storage function can be used to store your measurement results: up to 99 tests per site on up to 30 sites!

Bluetooth communication for Android IT-Report application

The ANDROID IT-Report application can be used to transfer the test results stored in the C.A 6133 onto a tablet or smartphone via Bluetooth. Test reports are then generated and sent automatically by email or simply stored for processing later on.











P01102084A

	Technical Specifications				
	C.A 6131	C.A 6133			
Continuity					
Range / Resolution / Accuracy	0.00 to $9.99~\Omega$ — Compensation of ca	bles up to 5 Ω; l ≥ 200 r	mA / 0.01 Ω / ± (2 % R* + 2 cts)		
Resistance					
Range / Resolution / Accuracy	1 to 9,999 Ω — 10.00 to	99.99 kΩ / 1 Ω – 10 Ω / ±	(1 % R + 5 cts)		
Insulation					
Test vo l tage	250 V / 500 V	250 V / 500 V / 1000 V			
Range / Resolution / Accuracy	0.01 to 999.9 MΩ /	10 kΩ or 100 kΩ / \pm (3 %	R + 3 cts)		
Earth resistance - 3P method					
Range	·	0.50 to 99.99 Ω	100.0 to 999.9 Ω	1,000 to 2,000 Ω	
Resolution	-	0.01 Ω	0.1 Ω	1Ω	
Accuracy	•	±(2 % R + 10 cts)	±(2 % R + 5 cts)	±(2 % R + 5 cts)	
Measurement frequency	·		128 Hz		
Earth loop (Zs) measurement No Trip (12 mA)					
Range / Resolution / Accuracy	1 to 19 Ω — 20 to 39 Ω — 40 to 2,000 Ω	$\Omega / 1 \Omega / \pm (2 \text{ cts}) - \pm (15 \% R + 3 < \text{cts}) - \pm (5 \% R + 2 \text{ cts})$			
Calculation of Ik		1 to 999 A			
With Trip (300 mA)					
Range / Resolution / Accuracy	0.1 to 0.9 Ω — 1.0 to 399	9.9 \(\text{ \ 0.1 \(\Omega \) \(\pm \) (2 \(\text{cts} \) \(\text{ \ \text{\ Cts}} \)			
Calculation of Ik		1 to 9,999 A			
Fault loop (Zi) measurement					
Type of connection		Banana cab l es			
Range / Resolution / Accuracy	300 mA measurement current: 0.1 to 0	0.9 Ω — 1.0 to 399.9 Ω / 0.1 Ω / ± (2 cts) — ± (5% R + 2 cts)			
Calculation of Ik		1 to 9,999 A			
RCD test					
Installation voltage		90 to 450 V; 45 to 65 Hz			
Types and calibres		AC and A; 30 mA - 100 mA - 300 mA - 500 mA			
Trip time	0.5x1ΔN;1x1ΔN;5x1ΔN/5.0 to 300 ms				
Trip current	30 mA: 0 +(7%R +3.3% I∆N + 2 mA)				
Fault voltage: Range / Resolution / Accuracy	1.0 to 25.0 V — 25.0 to 70.0 V	// 0.1 V / ± (15% R + 3 cts) — ± (5% R + 2 cts)			
Automatic test sequences	No		RCD, Loop-RCD-Insul	ation	
Voltage & Frequency					
Voltage: Range / Resolution / Accuracy	2.0 to 550.0 VAC - 0.0	0 to 800.0 VDC / 0.1 V / ± (1%R+2cts)			
Frequency: Range / Resolution / Accuracy	-	30.0 to 999.9 Hz / 0.1 Hz / ±(0.1 % R + 1 ct) - Voltage > 2V			
Phase rotation	45 to	550 V — 45 to 65 Hz			
Current					
	Via clamp with voltage output using the voltage sensor function (AUX)	Via MN73A c l amp	with 2A calibre: 10.0 mA to 2,40	0 mA, 200 A calibre: 1.00 to 200 A	
AUX sensor function (C.A 6131)					
AC+DC range: Range / Resolution / Accuracy	2.0 to 999.9 mV / 1.000 to 1.2000 V / 0.1 mV — 1 mV / ±(1 % R + 2 cts)	<u> </u>			
DC range / Resolution / Accuracy	±(0.0 to 999.9 mV) — ±(1.000 to 2.000 V) / 0.1 mV — 1 mV / ±(1 % R + 2 cts)		-		
	Gen	eral Specifications			
isp l ay	Custom 231-segn	nent LCD with blue backlighting			
Oata storage	-	30 sites x 99 tests			
Communication	-	Bluetooth Class I; range > 10m			
oftware	-	Android IT-Report application			
ower supply	6 x LR 6 or AA batteries	6 NiMH mains-rechargeable batteries, charging < 6 hrs , USB or vehicle cigarette lighter			
attery life	> 1,900 continuity measurements at 1 Ω	> 1,700 continuity measurements at I Ω			
imensions / weight	223 x 1 26	x 70 mm / 700 g approx.			
nvironment		Storage: - 10 to 70 °C (RH 80%)			
rotection	IP 54 (IEC 60 529) ; IK 04 (IEC 50102)				
tandards / Electrical safety			IEC 61010-2-034, 600V CAT III, 300V CAT II on charger input		
,	Parts 1, 2, 3, 4, 6, 7 and 10	Parts 1, 2, 3, 4, 5, 6, 7 and 10			
Compliance with IEC 61557	Fulls 1, 2, 3, 4, 6, 7 und 10		Paris I, Z, 5, 4, 5, 6, 7	and io	

P01146011 C.A 6131

Low-voltage installation tester delivered in a cardboard box containing:

- -1 carrying bag
- I neck strap
- 1 EURO mains 3-pole cable
- 3 x 1.5m/4 mm safety cables (red/black/green),
- 3 crocodile clips (red/black/green), 1 black test probe, 6 x LR6 L5V batteries, 1 User's manual on CD-ROM (5 languages),
- I quick startup guide on paper,
- -1 safety datasheet,
- -1 test report with measurement report

P01146013 C.A 6133

Low-voltage installation tester delivered in a cardboard box containing:

- -1 carrying bag
- 1 neck strap
- 1 EURO mains 3-pole cable
- 3 x 1.5m/4 mm safety cables (red/black/green), 3 crocodile dips (red/black/green),
- 1 black test probe, 6 x NiMH batteries,
- 1 x 2A USB power supply,
- 1 razor-type USB power cable,
- I User's manual on CD-ROM (5 languages),
- I quick startup guide on paper,
- 1 safety datasheet, 1 test report with measurement report 1 battery information sheet



FRANCE Chauvin Arnoux 190, rue Championnet 75876 PARIS Cedex 18 Tel: +33 1 44 85 44 38 Fax: +33 1 46 27 95 59 export@chauvin-arnoux.fr www.chauvin-arnoux.com UNITED KINGDOM Chauvin Arnoux LTD

www.chauvin-arnoux.com

Unit 1 Ne**l**son Ct, F**l**agship Sq, Shaw Cross Business Pk Dewsbury, West Yorkshire - WF12 7TH Tel: +44 1924 460 494 Fax: +44 1924 455 328 info@chauvin-arnoux.co.uk

MIDDLE EAST CHAUVIN ARNOUX MIDDLE EAST

P.O. BOX 60-154 1241 2020 JAL EL D**I**B - LEBANON Tel: +9611890 425 Fax: +9611890424 camie@chauvin-arnoux.com www.chauvin-arnoux.com



- Remote-control probe:
- MN 73A 2A/200A bi-colibre current clamp with 4-point connectors (C.A 6133):
- MN 73 2A/200A bi-colibre current clamp with P01120421

banana connections (C.A 6131):