

# C.A 6131 - C.A 6133

Electrical installation testers



# Test the electrical safety of your installations



- 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

















LOOP



TEST

C.A 6133



## **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.



Rereading/deletion of

recorded measurements.



Neck strap for hands-free use.



Built-in stand for benchtop use..



Charging via universal USB connections!

#### **Functions**

measurements.











## Continuity

## Earth

display.

Loop

## Insulation

The comprehensive RCD test can be used with type A and

**RCD** 

users are informed by a beep if the measurement is below the threshold, so they do not have 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 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.

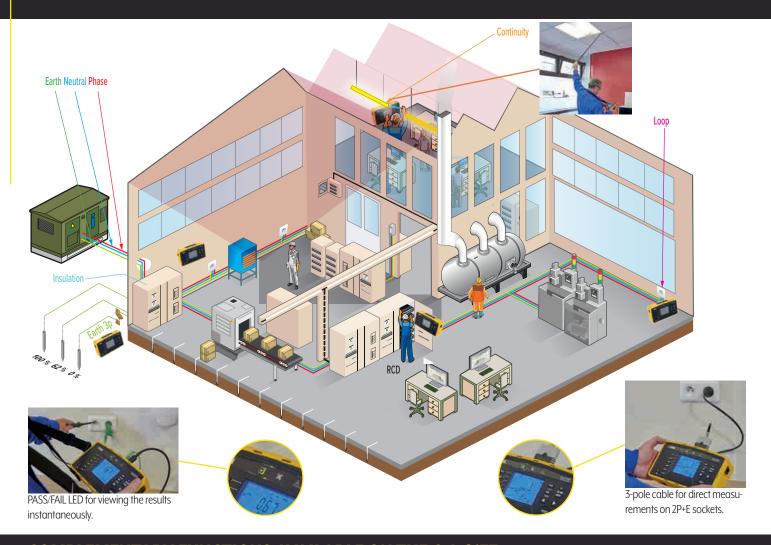
Loop measurement is performed in Trip or No Trip mode. On a TN or TT installation, loop impedance measurement can be used to size the protective systems for the installation (fuses or RCDs), particularly in terms of breaking capacity. On a TT installation, this measurement serves to determine the value 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.

AC RCDs. 3 types of test are available No Trip test,

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.











P01102157

P01102084A

		Technical Specifications				
		C.A 6131	C.A 6133			
Continuity						
	Range / Resolution / Accuracy	$0.00$ to $9.99~\Omega$ — Compensation of co	ables up to $5 \Omega$ ; $I \ge 200$	$mA / 0.01 \Omega / \pm (2 \% R^* + 2 cts)$		
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 voltage		250 V / 500 V	250 V / 500 V / 1000 V			
	Range / Resolution / Accuracy	0.01 to 999.9 MΩ	/ 10 kΩ or 100 kΩ / ± (3 %	( R + 3 cts)		
Earth resistance				1000.00000	1000 . 00000	
	Range	-	0.50 to 99.99 Ω	100.0 to 999.9 Ω	1,000 to 2,000 Ω	
	Resolution	·	0.01 Ω	0.1Ω	1Ω	
Accuracy		-	±(2 % R + 10 cts)	±(2 % R + 5 cts)	±(2 % R + 5 cts)	
F	Measurement frequency	•		128 Hz		
Earth loop (Zs)	measurement					
No Trip (12 mA)	Dange / Desolution / Accuracy	1+010.0 20+070.0 40+02.000.0	) /1 0 / , /2 etc) , /1E %	D . 7 c etc) (E 0/ D . 2 etc)		
Range / Resolution / Accuracy Calculation of Ik		1 to 19 Ω — 20 to 39 Ω — 40 to 2,000 Ω / 1 Ω / ± (2 cts) — ± (15 % R + 3 < cts) — ± (5 % R + 2 cts)  1 to 999 A				
With Trip (300 m			110 JJJ M			
Range / Resolution / Accuracy		0.1 to 0.9 $\Omega$ – 1.0 to 399.9 $\Omega$ / 0.1 $\Omega$ / $\pm$ (2 cts) – $\pm$ (5 % R + 2 cts)				
Calculation of Ik		1 to 9,999 A				
Fault loop (Zi) n			110 3,333 A			
raair ioop (Ei) ii	Type of connection		Banana cables			
Range / Resolution / Accuracy		300 mA measurement current: 0.1 to 0.9 $\Omega$ – 1.0 to 399.9 $\Omega$ / 0.1 $\Omega$ / ± (2 cts) – ± (5% R + 2 cts)				
	Calculation of Ik	See his threasan enterin carrein. en le	1 to 9,999 A	311 12 7 <u>2 (2 (13)</u> <u>2 (3 / 11)</u> 2 (13	/	
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 - 650 mA				
		Trip time 0.5 x I ΔN; 1 x I ΔN; 5 x I ΔN / 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	V / 0.1 V / ± (15% R + 3 cts) — ± (5% R + 2 cts)			
	Automatic test sequences	No		RCD, Loop-RCD-Insul	ation	
Voltage & Frequ	·					
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	45 to 550 V — 45 to 65 Hz			
Current						
		Via clamp with voltage output using the voltage sensor function (AUX)	Via MN73A clam	p with 2A calibre: 10.0 mA to 2,40	0 mA, 200 A calibre: 1.00 to 200 A	
AUX sensor fun	ction (C.A 6131)					
AC+DC ro	ange: Range / Resolution / Accuracy	2.0 to 999.9 mV / 1.000 to 1.2000 V / 0.1 mV — 1 mV / ±(1 % R + 2 cts)		-		
	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)		-		
		General Specifications				
isplay		Custom 231-segment LCD with blue backlighting				
ata storage		-	30 sites x 99 tests			
Communication		-	Bluetooth Class 1; 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 1 $\Omega$			
imensions / weig	ht	223 x 1 26 x 70 mm / 700 g approx.				
nvironment		Use: 0 to 40 °C / Storage: - 10 to 70 °C (RH 80%)				
rotection		IP 54 (IEC 60 529) ; IK 04 (IEC 50102)				
tandards / Electri		EMV: IEC 61326-1; IEC 61010-1; IEC 61010-2-030	10-2-030 ; IEC 61010-2-034, 600V CAT III, 300V CAT II on charger input			
ompliance with I	EC 61557	Parts 1, 2, 3, 4, 6, 7 and 10		Parts 1, 2, 3, 4, 5, 6, 7	and 10	
Compliance with I		Parts 1, 2, 3, 4, 6, 7 and 10			Parts 1, 2, 3, 4, 5, 6, 7 (	

#### P01146011 C.A 6131

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 clips (red/black/green), 1 black test probe, 6 x LR6 1.5V 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 clips (red/black/green), 1 black test probe, 6 x NiMH batteries,
- 1 x 2A USB power supply,
- 1 razor-type USB power cable,
- 1 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 Nelson Ct, Flagship 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 DIB - LEBANON Tel: +9611 890 425 Fax: +961 1 890 424 camie@chauvin-arnoux.com www.chauvin-arnoux.com



Remote-control probe: P01102157 MN 73A 2A/200A bi-calibre current clamp with P01120439

4-point connectors (C.A.6133):

- MN 73 2A/200A bi-calibre current clamp with P01120421