

*For earth resistance testing...  
whatever the installation configuration!*

## The all-purpose tester!

**Earth / loop  
tester**

- ✓ *Cat. III 600 V*
- ✓ *Large backlit LCD screen  
with 2 x 4000 counts and  
a wide range of indicator icons*
- ✓ *Immediate error free connections  
thanks to mains connection lead*
- ✓ *Alarm and date-time memory functions  
(100 measurements)*
- ✓ *Optical fibre communication:*
  - *direct printing  
on serial printer*
  - *data transfer of memory  
to PC (transfer application software  
supplied as standard)*
- ✓ *Supplied with "hands free" carrying strap*



- Automatic voltage and frequency testing of installation
- Earth resistance measurement
  - installation power off (3 or 2 rods measurements)
  - installation power on (1 rod or loop measurements)
- Selective earth measurement using current clamp
- Measures true (R,L) loop and line impedance without RCD tripping
- Calculation of short-circuit currents
- Measurement of current and leakage current using clamp

## The only all-purpose earth tester on the market!

Earth power off 3 rods and 2 rods / live earth 1 rod / earth loop  
/ internal loops / current clamp

Innovative and easy to use, the **C.A 6456 all-purpose earth tester** combines optimum ease of use with enhanced metrological performances for testing compliancy with European and international standards: NF C 15-100, IEEE, VDE 0100, NIN / NIV, UE EN-1, ...

Thanks to its letter-coded terminals (for power-off earth measurements) and lead for connecting directly to installation socket (for loop measurements), it is quick and safe to operate: permutation of L and N inputs automatically if conductors are reversed at socket connection.

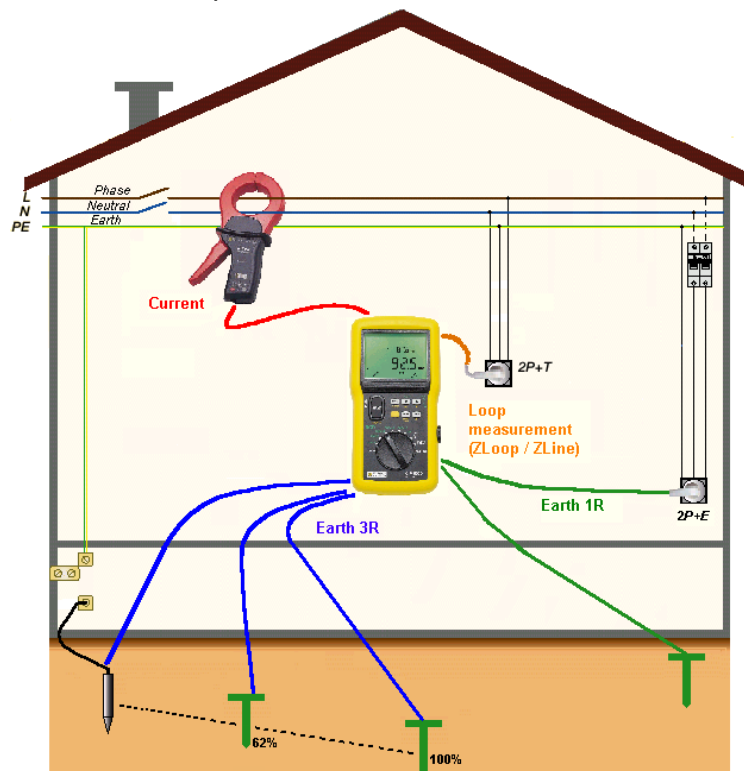
The measurement is then selected using rotary switch and launched by simply pressing on TEST.

The apparatus carries out **power-off** earth measurements using auxiliary earth rods (conventional methods), or power-on measurements when the use of auxiliary rods is not possible.

A wide range of functionalities are accessible by direct fingertip control: activation of alarms, date / time recording of results and/or direct printing of measurement readings using serial printer.

These combined advantages place the **C.A 6456** among the forerunners of a new generation of testers!

Another advantage: the data transfer application software is supplied as standard.



<ul style="list-style-type: none"> <li>Voltage / frequency measurement</li> </ul>	automatic measurement of installation connections: from 2 to 550 V (DC or RMS) / from 15.3 to 450 Hz	battery level/ autonomy
<ul style="list-style-type: none"> <li>Earth measurement 3R and 2R (with rods)</li> </ul>	- resistance from 0,50 $\Omega$ to 40,00 k $\Omega$ - measurement frequency: 128 Hz / no-load voltage 25 V or 50 V	stand-by deactivated
<ul style="list-style-type: none"> <li>Earth measurement power on (1R) / <math>R_{earth}</math></li> <li>Earth loop impedance / <math>Z_{loop}</math> (3 wires)</li> </ul>	- 2 measurement modes: <ul style="list-style-type: none"> <li>high current / with RCD tripping (better precision or selective measurements using current clamp)</li> <li>low current mode / without RCD tripping (rapidity)</li> </ul> - resistance / impedance of loops L-N, L-L and L-PE from 0,20 $\Omega$ to 4000 $\Omega$ - short-circuit current: displayed up to 40 kA by calculation $IK=UREF / ZL-PE$	lead compensation programmable alarms
<ul style="list-style-type: none"> <li>Line impedance (<math>Z_{line}</math>) (2 wires)</li> </ul>	- resistance / impedance of loops L-N, L-L or L-PE from 0,20 $\Omega$ to 4000 $\Omega$ - short-circuit current: displayed up to 40 kA by calculation $IK=UREF / ZL-PE$	memory
<ul style="list-style-type: none"> <li>Current measurement</li> </ul>	clamp connections 20 A (MN20 & C172) or 200 A (C174)	communication on memory used level

### Accessories :

*Data transfer application software*

Clamp MN20 P01.1204.40

Clamp C172 P01.1203.10

Clamp C176 P01.1203.30

Serial printer P01.1029.03

### To order

#### ➤ C.A 6456 Earth / Loop Tester (Euro) P01.1235.12

Supplied with "hands free" carrying strap and accessories bag:

- 1 mains lead
- 1 3-wire lead
- 3 test probes / 3 crocodile clips
- 1 user's manual in 5 languages
- 1 data transfer application software
- 1 communication lead

### General specifications

- Power supply: 6 x 1.5 V batteries or rechargeable batteries
- Complies with standards EN 61010-1 and EN 61557
- Electromagnetic compatibility (EMC) rating EN 61326
- IP 54 Dimensions: 211 x 108 x 60 mm ; Weight: 900 g



#### ➤ Version C.A 6456 (Euro) +T P01.1235.13

Idem + carrying bag containing 2 earth rods  
+ 50 m red cable + 50 m blue cable + 10 m green cable

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