

Quick checking of earth loops

C.A 6411

C.A 6413

C.A 6415

**EARTH
CLAMPS**



Ω mA



**CHAUVIN
ARNOUX**

An active element in electrical protection, the earthing is usually made up of several links to the equipotential surface (surface of the earth), thus forming multiple loops. To complement the traditional continuity and earth measurements, the C.A 6411, 6413 and 6415 offer the advantage of quick earth testing in total safety (the electrical installation remains connected to earth, even during the test). These clamps

can also be used to measure the leak currents flowing into the ground. To further optimize your testing operations, the C.A 6413 and 6415 models also possess an alarm function (buzzer if threshold exceeded) and a measurement logging function. In the event of low earth resistances, the C.A 6415 allows measurements from one tenth of an Ohm upwards.

	Calibre ⁽¹⁾	Resolution	Accuracy ⁽²⁾
Resistance measurement	0.10 to 1.00 Ω ⁽³⁾	0.01 Ω	$\pm (2 \% + 0.02 \Omega)$
	1.0 to 50.0 Ω	0.1 Ω	$\pm (1.5 \% + 0.1 \Omega)$
	50.0 to 100.0 Ω	0.5 Ω	$\pm (2.0 \% + 0.5 \Omega)$
	100 to 200 Ω	1 Ω	$\pm (3.0 \% + 1 \Omega)$
	200 to 400 Ω	5 Ω	$\pm (6.0 \% + 5 \Omega)$
	400 to 600 Ω	10 Ω	$\pm (10 \% + 10 \Omega)$
	600 to 1200 Ω	50 Ω	-
RMS current measurement	1 to 300 mA	1 mA	$\pm (2.5 \% + 2 \text{ mA})$
	0.300 A to 3.000 A	1 mA	$\pm (2.5 \% + 2 \text{ mA})$
	3.00 A to 30.00 A	10 mA	$\pm (2.5 \% + 20 \text{ mA})$

⁽¹⁾ Automatic calibre change
⁽²⁾ In the reference conditions
⁽³⁾ Calibre only available on the C.A 6415 model

General specifications

- Clamping diameter: 32 mm
- Temperature of use: -10 to +55 °C
- Storage temperature: -30 to +70 °C
- Relative humidity: 0 to 75% RH
- IP 30 as per EN 60529
- Dimensions : 235 x 100 x 55 mm
- C.A 6413 and 6415 models:
Alarm threshold adjustable from 1 to 199 Ω
Memory capacity: 99 measurements.

Electrical specifications

- Complies with EN 61010-2-032
- Dual insulation, class 2
- 150 V, cat. III, pollution level 2
- Max. over-intensity: 100 A AC constant
- Measurement frequency:
1689 Hz (C.A 6411 and C.A 6413)
2400 Hz (C.A 6415)
- Charge life: with 9 V alkaline battery (Cd/Ni battery accepted):
 - 1000 thirty-second measurements (C.A 6411 and C.A 6413)
 - 1500 thirty-second measurements (C.A 6415)

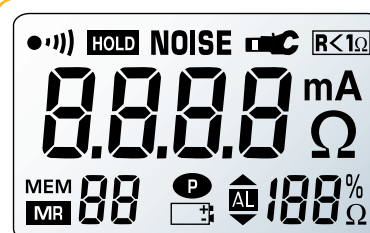
1
clamp

2
measure

To order

- C.A 6411 P01.1220.01
 - C.A 6413 P01.1220.02
 - C.A 6415 P01.1220.03
- Each earth clamp is delivered in a carrying case with one 9 V battery and a user's manual.
- Calibration loop
CL1 P01.1223.01

Your distributor



C.A 6411, 6413 and 6415 models

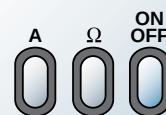
- Ω Resistance measurement
- mA Current measurement
- 100% Remaining battery charge life
- Battery indicator
- P Automatic shutdown inhibited
- HOLD Holding of display
- Buzzers active
- NOISE Significant eddy currents
- Jaws not closed properly

C.A 6411 and 6413 models

- R<1Ω Resistance under 1 Ω

C.A 6413 and 6415 models

- 188 Alarm function
- MEM Recording in memory
- MR Reading memory



C.A 6411 model

- ON OFF Start/stop + autotest
- Ω Resistance measurement
- A Current measurement



C.A 6413 and 6415 models

- ON OFF Start/stop + autotest
- Ω Resistance measurement
- A Current measurement
- MEM Recording of measurement
- AL Alarm activation and adjustment

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