

Test and certify the electrical safety of machines, in accordance with the European standard

EN 60204-1

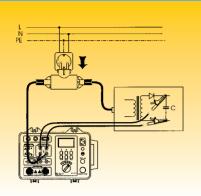
C.A 6121

Machine tester



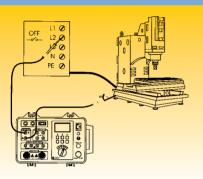
- A single instrument, user friendly and easy to use, for all the tests!
- Worksite "all terrain" sturdy and portable case
- LCD dot matrix screen, with back lighting (adjustable contrast)
- Memory for 999 measurements
- PC software runs under Windows
- Complete range of accessories

北京海洋兴业科技股份有限公司(证券代码:839145) 电话:010-62176775 网址:www.hyxyyq.com



Voltage range: 600 V AC/DC Max measurement time: 10 s Discharge threshold: 60 V

- Measurement of the discharge time at the supply terminals of the machine (2 point system)
- Measurement of the discharge time of the internal components (4 point system: 2 for the detection of the mains cut-out and 2 for the measurement on internal components)



500 V or 1000 V DC Range: 0...500 M Ω

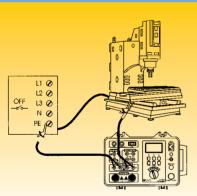
- Possible programming of a minimum resistance threshold, below which, an audible and visible alarm is set ∩ff
- Test with or without timer (2 s to 10 min)

The C.A 6121

turdy and portable, the C.A 6121 is the tool of the machine directive. Mandatory since 1995, this directive, whose aim is to quarantee the safety of users, imposes four types of electrical tests. To facilitate bringing into conformity new or installed machines, Chauvin Arnoux has grouped together all the necessary measurements, in a unique "all terrain" instrument.

Equipped with a particularly clear display, the C.A 6121 surprises by its ease of use. Besides its measurement capacities and the variety of its accessories, the instrument also has a comfortable memory and an RS232 output for a paper printout, or for exploitation on PC.



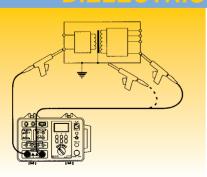


Range : 0...1.99 Ω Test voltage < 12 V AC Test current $(0...500 \text{ m}\Omega) > 10 \text{ A AC}$

- 4-wire measurement
- Display of the result, either in V (voltage drop ΔU defined in accordance with EN 60204-1), or in Ω
- Possible programming of a maximum threshold of voltage drop (pre-set values in accordance with standard), or of resistance, with triggering of an audible and visible alarm in case of overshoot

Measurement

@



1000 V, 1250 V ou 1500 V AC Power: 500 VA

Adjustment of the maximum current threshold from 1 to 500 mA

■ Test with or without timer (1 s to 5 min)

- Display of real voltages and currents
- Floating HT outputs for improved safety

he very complete delivery package of the C.A 6121, allows all the electrical measurements of standard EN 60204-1 to be performed. It can be completed by

other accessories, to satisfy specific needs or special standards (e.g. VDE 104).



In its original shoulder bag, there is also room for all the additional accessories

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DISCHARGE TIME

1 s max at 60 V an the power supply

- INSULATION
- CONTINUITY

 ΔU max at I > 10 A AC for 10 s (depending on the cross section of the PE cable):

DIELECTRIC



As standard, the delivery package allows all the tests to be done.

RS 232 output 3

Operating under WINDOWS PC. the "C.A TRANSFER" software reads the data memorised in the instrument and exports it in a text file for an EXCELTM spreadsheet. In total,

the internal memory of the instrument can contain up to 999 measurements classed according to machines. The software allows the



date/time of the machine to be set (time and date of the measurements) and to include the name and address of

the operator which

printouts.

电话:010-62176775



The user of the

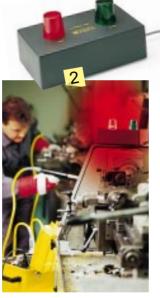
software can choose the language to

use from French, English, German, Italian or Spanish. The instrument has different

printout modes, automatic or

as an accessory (see end of document "To order").





 SIGNALLING **LIGHTS:** During dielectric tests, this unit signals a potential danger at a distance (green light if the instrument is powered up) or existing (red light if the test is in progress). The safety of persons who

are close to the place where the test is being conducted is thus increased.

• HIGH VOLTAGE GUNS: Two dielectric test guns equipped with a cable 6 m long, are also available.



They allow tests to be done at a greater distance than with standard guns (2 m).

accessories

• REMOTE CONTROL PEDAL : it frees the hands of the user and provides the On/ Off functions for the test and memorisation of the result



Test voltage greater than 1000, 1250 or 1500 V / 50 Hz at a voltage Umains = 230 V and a power Pload = 500 VA

Display	Test voltage	Test current (sinusoidal)	
Range	02.00 kV	0199.9 mA	200500 mA
Resolution	10 V	0.1 mA	1 mA
Accuracy	±(2% L + 20 V)	±(2% L + (0.3 mA) *

^{± (2%} rdg + 0.5 mA) if triggering current set to 30, 40, 50, 60, 70, 80, 90 or 100 mA and ± (2% rdg + 2 mA) on 150, 200, 250, 300, 330, 350, 400, 450 or 500 mA

■ Display of the character of the test current : resistive, capacitive or absolute value

■ Timer : without or adjustable from 1 s to 5 min

INSULATION RESISTANCE

Display	Insulation resistance				Test voltage
Range *	01.999 MΩ	2.0019.99 MΩ	20.0199.9 MΩ	200500 MΩ	01200 V
Resolution	1 kΩ	10 kΩ	100 kΩ	1 ΜΩ	1 V
Accuracy	±(2% L + 2 pt)			±10% L	±(2% L + 2 pt)

^{*} automatic ranges

- Rated voltage: 500 or 1000 V ...
- Measurement with or without adjustable threshold value (0.2...500 MΩ)
- Measurement current : 1 mA min
- Timer : without or adjustable from 2 s to 10 min

CONTINUITY.

Display	Voltage drop (ΔU)	Resistance (R _{10A}) *		Test voltage	Test current	
Range	010 V	$0999~\text{m}\Omega$	1.001.99 Ω	012 V	09.99 A	10.025.0 A
Resolution	0.01 V	1 mΩ	10 mΩ	0.01 V	0.01 A	0.1 A
Accuracy	±(2% L + 0.02 V)	±(2% L + 2 mΩ)	± 5% L	±(2% L + 0.02 V)	±(5% L + 2 pt)	±3% L

^{*} automatic ranges

■ Voltage drops (ΔU) max pre-set, depending on the cross section of the cable :

Cross-section of the cable tested	0,5 mm ²	0,75 mm ²	1 mm ²	1,5 mm ²	2,5 mm ²	4 mm ²	6 mm ²
Max voltage drop	5 V	5 V	3.3 V	2.6 V	1.9 V	1.4 V	1.0 V

- Measurement of low resistance (R_{10A}) with or without adjustable threshold value (10...2000 mΩ) ■ Max output voltage : 12 V~
- Timer : without or adjustable from 1 to 15 s Measurement current (0...0.5 Ω) : > 10 A ~ \blacksquare Connection system : 4-wire

DISCHARGE TIME.

Display	Discharge time
Range	010 s
Resolution	0.1 s
Accuracy	±(2% L + 0.2 s)

- Level of safety voltage : 60 V
- Automatic threshold of discharge time :
- 1 s at the power supply terminals (2 point measurement) 5 s at the internal components (4 point measurement)
- Max service voltage: 600 V AC/DC

GENERAL SPECIFICATIONS

- Mains voltage: 230 V / 50 Hz
- Max power absorbed : 600 VA
- LCD screen : dot matrix 128 x 64 with permanent backlighting and adjustable contrast
- Interface : RS232
- Memories: 999 values
- Remote control signals : On / Off and Record
- Working temperature: 0...50°C
- Working humidity: 85% RH max (0...+40°C)
- Dimensions (W x D x H) : 400 x 260 x 250 mm ■ Weight: 11 kg
- Protection index : IP 40 (open) IP 54 (closed)
- Protection of measurement circuits : by HBC
- Electrical safety : IEC 1010-1 Cat III 600 V

Applicable standards :

EN 60204-1 "Test of electric machines

VDE 104 " Installation and operation of electric

test equipment

EN 61180-1 and -2 " High voltage test techniques for low voltage equipment



To Order

■ C.A 6121

(Great Britain model)P01.1456.02

■ C.A 6121

(Continental Europe model)......P01.1456.01

Instruments supplied with:

- 1 mains lead, 3-core,
- 1 set of 2 keys to lock the instrument,
- 2 high voltage guns (2 m cable),
- 1 discharge cable,
- 2 continuity leads 2.5 m, with double contact crocodile clips,
- 2 safety leads 3 m (red/ black),
- 2 crocodile clips (red/ black),
- 1 test prod (red), 1 carrying bag
- for the accessories and the user manual

Additional accessories :

- PC software
 - « C.A 6121 TRANSFER »P01.1019.15 supplied with cable RS232 DB9M/DB25F
- + adapter DB25M/ DB9F
- Serial printerP01.1029.01 supplied with cable RS232 DB9M/ DB9M
- Remote control pedalP01.1019.16
- Signalling lightsP01.1019.17

网址:www.hyxyyq.com

■ 2 high voltage guns (fitted with cable 6 m)P01.1019.18 08 94 Ed.1 - 11/97 Non contractual document - Confirm specifications before ordering - Photos Blaise PASTOR - SANTIAGO - 01 41 41 906 111 632 -