

Type of product: Multi-function installation tester  
Name of product: C.A 6116

PRESS RELEASE  
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## Standard-compliant electrical installation testing Simplicity and high performance: the C.A 6116

The electrical measurement instrument specialist Chauvin Arnoux is launching a new multi-function installation tester designed, developed and manufactured in France: the **C.A 6116**. This **multilingual instrument** can be used for verification and testing in accordance with the applicable **international** and national **standards**: IEC 60364-6, NF C 15-100, VDE 100, XP C 16-600, etc.

Drawing on the success of the C.A 6115 **in the field**, the C.A 6116 completes the range by incorporating additional functions and features as requested by users.



### **Ergonomics**

The C.A 6116 tester is a rugged, **compact** instrument specially designed for simple learning so that it can be operated effectively straight away. Its wide backlit graphic screen is particularly easy to read and its display shows all the essential results at a glance.

A rotary switch located on the instrument's front panel gives **direct access** to all the functions. A large number of audio signals and visual symbols are provided for **quick interpretation of the results according to the standards**. For more effective operation, contextual help is available for each function, offering users a genuine guide including diagrams!

The connections are simplified by clearly-identified input terminals.

A "4-point strap for extra comfort" allows "hands-free use".

### **Multiple applications...**

Suitable for residential, tertiary and industrial applications, the C.A 6116 is ideal for all types of neutral systems (TT, TN, IT).

Electricians can check their work on new or renovated installations and inspection companies can **certify the safety of the infrastructures** which they are responsible for testing.

The C.A 6116 can be used for simple, error-free measurements of the quantities required by the various safety standards covering installation construction and **maintenance**, as well as for residential electrical surveys (XP C 16-600 experimental standard). It also complies with the international IEC / EN 61557 regulations, which stipulate precise specifications and performance levels for installation testers.

### **Performance**

The C.A 6116 is a comprehensive tool offering excellent reliability thanks to the stability of its measurements, even in high-disturbance industrial environments. The possibility of carrying

out **current measurements** with a current clamp means that users no longer need a second instrument, notably for measuring leakage currents.

In addition, to deal with the spread of electronic equipment liable to pollute the network, power and harmonics measurements have also been included in the instrument.

With the C.A 6116, users can prepare their measurement campaigns directly in the measurement instrument or via the PC software supplied. This function allows hierarchical storage based on the site, the location and the equipment tested.

### ***Analysis of the results***

The measurements taken with the **C.A 6116** can be processed by the DataView<sup>®</sup> multi-product expert software. DataView<sup>®</sup> automatically recognizes the instrument when it is connected to the PC and opens the corresponding menu. Users can access the data recorded in the instrument, its configuration, etc., directly via a tree-structure.

The software includes a wide range of predefined report formats that fulfil the requirements of the various standards.

Users can also create their own report formats to meet their specific needs.

For quick, simplified analysis of the measurements recorded, the ICT software delivered as standard with the instrument offers functions for data recovery, instrument set-up, customization of measurement campaigns with transfer into the instrument and printing of reports.

The **C.A 6116** is supplied with a wide range of accessories such as special three-connection leads for measuring on the mains or on switchboards, the remote-control probe for starting the test "from a distance", the continuity rod for measurements in places where access is difficult, etc.

### **TECHNICAL SPECIFICATIONS**

**Continuity** at 200mA and 12 mA with buzzer if measurement < 2  $\Omega$

Resistance measurement up to 400 k $\Omega$

**Insulation** at 50 / 100 / 250 / 500 / 1,000 V up to 2 G $\Omega$

**3-pole earth measurement** (0.50  $\Omega$  to 4,000  $\Omega$ )

**1P live earth measurement**

**1P selective** live earth measurement (with stake + current clamp)

**Zs loop impedance measurement**

**Zi loop impedance measurement**

**Calculation of Ipp up to 40 kA**

**RCD testing in step and pulse mode** (6 mA / 10 mA / 30 mA / 100 mA / 300 mA / 500 mA / 650 mA / 1000 mA or variable)

**Current & leakage current** (optional MN or C clamp)

**Phase rotation**

Power measurement (single-phase or balanced three-phase) with display of waveform for current and voltage

**Voltage and current harmonics up to the 50th order**

**Electrical safety:** IEC 61010-1 (Cat. III 600 V or Cat. IV 300 V) and IEC 61557



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