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Chauvin Arnoux P01146013

Chauvin Arnoux C.A 6133 Installation Tester User Manual

Model: P01146013

1. INTRODUCTION

The Chauvin Arnoux C.A 6133 is a comprehensive installation tester designed for electrical safety measurements in accordance with international standards. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your device.



Figure 1: Front view of the Chauvin Arnoux C.A 6133 Installation Tester, showing the display and control buttons.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the C.A 6133 to prevent electric shock, injury, or damage to

the instrument.

- Read and understand this manual completely before use.
- Ensure the instrument is in good working condition and free from damage before each use.
- Do not use the instrument in wet conditions or in explosive atmospheres.
- Always use the provided test leads and accessories.
- Verify that the circuit under test is de-energized before making connections for resistance or continuity measurements, unless specified otherwise for live measurements.
- Adhere to all local and national electrical safety regulations.

3. PACKAGE CONTENTS

The standard package for the Chauvin Arnoux C.A 6133 includes the following items:

- Chauvin Arnoux C.A 6133 Installation Tester unit
- Set of test leads and probes
- Carrying bag
- Power adapter/charger
- Batteries (pre-installed or separate)
- User manual (this document)
- Software CD (if applicable)



Figure 2: Contents of the Chauvin Arnoux C.A 6133 package, including the tester, leads, charger, and carrying bag.

4. SETUP

4.1. Battery Installation and Charging

The C.A 6133 operates on internal rechargeable batteries. Ensure the batteries are fully charged before initial use.

1. Locate the battery compartment on the rear of the device.
2. Insert the supplied batteries, observing correct polarity.
3. Close the battery compartment securely.
4. Connect the supplied power adapter to the charging port on the device and plug it into a suitable power outlet. The charging indicator will illuminate.
5. Allow sufficient time for a full charge as indicated by the device or until the charging indicator changes state.

4.2. Attaching the Neck Strap

For convenient and secure handling during measurements, attach the provided neck strap.

1. Locate the strap attachment points on the sides of the C.A 6133.
2. Thread the strap through the attachment points and secure it according to the strap's design.



Figure 3: The C.A 6133 with the neck strap attached for ease of use.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

Press and hold the **Power** button (usually located at the bottom left of the control panel) to turn the device on or off.

5.2. Navigating the Interface

The C.A 6133 features a backlit LCD display and a set of function buttons on the left, and navigation/control buttons on the right.

- **Function Buttons (Left Panel):** Select measurement modes such as V/I (Voltage/Current), Ω 3P (3-pole Resistance), M Ω (Insulation Resistance), LOOP (Loop Impedance), RCD (Residual Current Device), and AUTO

(Automatic Test Sequence).

- **Navigation/Control Buttons (Right Panel):**

- **MR/CLR:** Memory Recall / Clear.
- **MEM:** Save measurement to memory.
- **Up/Down Arrows:** Navigate menus or adjust parameters.
- **TEST:** Initiate a measurement or test sequence.



Figure 4: The C.A 6133 display showing an insulation resistance (MΩ) measurement, indicating a value of 10.29 MΩ at 500V.

5.3. Performing Measurements (Examples)

Connect the appropriate test leads to the device and the circuit under test. Always ensure proper connection and safety before initiating any test.

5.3.1. Loop Impedance Measurement

1. Select the **LOOP** function.
2. Connect the test leads to the live, neutral, and earth terminals of the circuit.
3. Press the **TEST** button to begin the measurement. The display will show the loop impedance value.



Figure 5: The C.A 6133 display showing a loop impedance measurement, indicating a value of 0.22 Ω and a current of 0.2 A.

5.3.2. Using a Current Clamp

The C.A 6133 can be used with an external current clamp for current measurements.

1. Connect the current clamp to the designated input on the C.A 6133.
2. Select the appropriate current measurement function (e.g., V/I if applicable for current).
3. Clamp the current clamp around the conductor to be measured.
4. Read the current value on the display.



Figure 6: The C.A 6133 connected to an external current clamp for current measurement applications.

5.3.3. Earth Resistance Measurement (with optional accessories)

For earth resistance measurements, additional accessories such as earth rods and cables may be required.

1. Connect the C.A 6133 to the earth rods and the earth connection of the installation as per the specific test method (e.g., 3-pole method).
2. Select the appropriate earth resistance function (e.g., Ω 3P).
3. Initiate the test and read the earth resistance value.

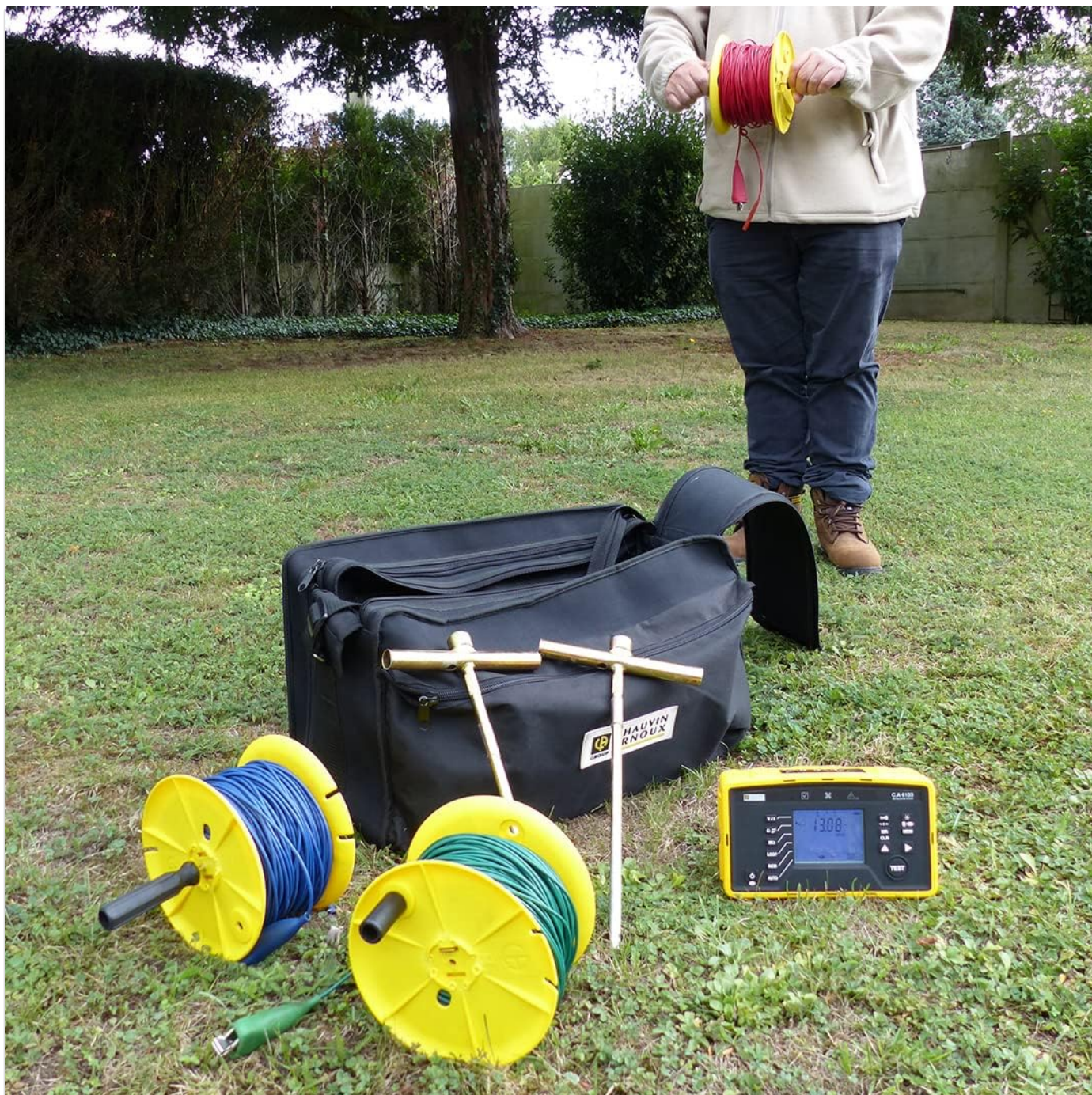


Figure 7: The C.A 6133 set up outdoors with earth rods and cables for earth resistance measurement.

6. MAINTENANCE

6.1. Cleaning

To maintain the accuracy and longevity of your C.A 6133, follow these cleaning guidelines:

- Disconnect all leads and power before cleaning.
- Wipe the exterior of the instrument with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure no moisture enters the device.

6.2. Storage

When not in use, store the C.A 6133 in its carrying bag in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your C.A 6133. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted batteries.	Charge the batteries or replace them.
Inaccurate readings.	Poor lead connection; incorrect test setup; environmental factors.	Ensure leads are securely connected. Verify test setup matches the measurement type. Perform tests in stable environmental conditions.
Display shows error message.	Measurement out of range; internal fault.	Refer to the specific error code in the full manual (if available). If persistent, contact support.

8. SPECIFICATIONS

Key technical specifications for the Chauvin Arnoux C.A 6133 Installation Tester:

Feature	Detail
Manufacturer	Chauvin Arnoux
Model Number	P01146013
Product Dimensions (LxWxH)	22.3 x 12.6 x 7 cm
Item Weight	700 Grams
Power Source	Internal rechargeable batteries (referred to as hand-operated in some contexts due to manual test initiation)
Batteries Included	Yes
Components Included	1 unit

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Chauvin Arnoux C.A 6133, please contact Chauvin Arnoux customer service or visit their official website. Keep your purchase receipt as proof of purchase.
Official Website: www.chauvin-arnoux.com



