CHAUVIN ARNOUX

MEGOHMMETER CA 6506

Expertise in 5 kV insulation testing

SPECIAL EDITION: ENERGY INDUSTRY AND DISTRIBUTION



- **Simplified Preventive Maintenance**
  Regular monitoring of the condition of the insulators and integrated analysis functions
- **Time savings and efficiency**
  Immediate use of results thanks to automatic testing
- **Quick deployment in the field**
  Robust, compact, and protected against shocks and dust (IP 54)

1000 V CAT IV | IP 54 | IEC 61557

Measure up

Check the reliability of electrical installations.

Chauvin Arnoux megohmmeters are designed to meet the requirements of industrial maintenance and electrical diagnostics.

They provide reliable, fast, and accurate insulation measurements to optimize safety, service continuity, and equipment longevity.



AUDIBLE SIGNAL

MEASUREMENT TERMINALS

4-POSITION CONFIGURATION SWITCH

- Insulation measurement, voltage settings, and maximum current
- Set duration
- Dielectric absorption ratio
- Polarization index

BACKLIT LCD DISPLAY

9-POSITION MEASUREMENT SWITCH

- **Fixed-voltage insulatio test:**
- Variable-voltage isolation measurement
- OFF: Device shutdown
- Voltage measurement V
- Configuration

FUNCTION SHORTCUT KEYS

- Burning
- Filter

SHOCK-RESISTANT SLEEVE

BATTERY LEVEL INDICATOR

TEST

button to start the test
The button's color changes depending on its status: green, red, or yellow

A SINGLE DEVICE TO MEET ALL INSULATION TESTING NEEDS

- **Up to 15 TΩ at 5 kV**
- **Programmable variable voltage from 40 to 5,100 V**
- **Perfectly adapted to manufacturers' test procedures**
- **Compatible with both legacy and next-generation equipment**



ACCESSORIES FOR EVERY SITUATION

The CA 6506 megohmmeter comes with a carrying case and 3-meter test leads terminated with integrated, insulated high-voltage alligator clips. These high-voltage alligator clips have an optimized shape that ensures perfect contact when connecting to objects of various geometric shapes.

Optional accessories: simplified test leads terminated with a 4-mm banana plug, compatible with small alligator clips or test probes.



More powerful, smarter, safer.

The 5 kV AC 6506 megohmmeter, the successor to the CA 6505, is designed for demanding insulation testing on:

- HV/LV Networks
- Motors and Generators
- Transformers
- Power Cables

REDUCING THE RISK OF ERRORS AND DAMAGEA TO THE EQUIPMENT UNDER TEST

- CAT IV 1000 V
- Automatic of hazardous voltage
- Automatic capacitance discharge
- Programmable test current limitation up to 3 mA

RELIABLE MEASUREMENTS EVEN IN NOISY ENVIRONMENTS

- Detection of parasitic voltages
- Adjustment of the permissible noise threshold
- Digital filter up 60 s
- Protection against induced currents up to 3 mA

DETECT INSULATION DETERIORATION BEFORE IT CAUSES A FAILURE USING THE BUILT-IN DIAGNOSTIC TOOLS

- AC, DC, and AC+DC voltage measurements
- Insulation measurements at 250 V, 500 V, 1,000 V, 2,500 V, 5,000 V
- Insulation measurements with variable voltage between 40 and 5,100 V
- Leakage current measurements
- Capacitance measurements
- Non-destructive testing (current limit) or burn-in tests
- Calculation of DAR, PI, and time-controlled measurements

DESIGNED FOR FIELD USE

- Rechargeable NiMH battery via USB-C
- Can be used while charging
- Shock-resistant case
- Carrying case
- IP 54

SIGNIFICANTLY REDUCE THE TIME SPENT LOCATING FAULTS IN CABLES AND INSTALLATIONS USING THE BURN-IN MODE

- Test current up to 6 mA
- Save time during troubleshooting operations



EVERYDAY BENEFITS

Simplified Preventive Maintenance

- Anticipate breakdowns through regular monitoring of insulator condition and built-in analysis functions (DAR and PI ratios)

Time savings and efficiency

- Use the results immediately thanks to automatic tests

Multiple applications

- Vary the measurement voltage from 40 to 5,100 V to cover all measurement scenarios

Reliability in the field

- Rugged, compact, and protected against shocks and dust (IP 54)

TECHNICAL SPECIFICATIONS

	CA 6506
METROLOGY	
Insulation	15 TΩ
AC Voltage	0 to 7,000 V
DC Voltage	0 to 5,000 V
CCapacitance	10 µF
Leakage Current	0.001 nA to 5,99 mA
FEATURES	
Display	Large graphic LCD
Backlightlighting	Yes
Display smoothing	Yes
Test duration programⁿⁿ Test Duration	Yes
Calculation of Ratios	DAR - PI
U Lock (Test)	Yes
GENERAL SPECIFICATIONS	
Power Supply	10 rechargeable NiMH batteries (1.2 V, 4500 mA/h) included External power supply connected to the USB-C port
Charging time	Approximately 7 hours and 30 minutes The device can be used while the battery is charging The device can operate using the external power supply, without batteries or rechargeable batteries
Protection rating	IP 54 and IP 20 when the terminals are connected in accordance with IEC 60529 IK 04 according to IEC 62622
Electrical safety	Equipment: IEC EN 61010-2-034 and IEC 61557 Parts 1 and 2 Cords: IEC EN 61010-031 1000 V CAT IV Double insulation
Electromagnetic compatibility	IEC EN 61326-1
Dimensions	270 x 205 x 105 mm
Weight	3.3 kg (batteries included)

TO ORDER

CA 6506 Megohmmeter P01139717
Supplied with a carrying case containing:

- One CA 6506 with a shock-resistant case mounted on the unit.
- Two high-voltage safety leads, red and blue, 3 m long, equipped with a high-voltage plug on one end and a high-voltage alligator clip on the other end.
- One black high-voltage safety cord, 3 m long, equipped with a high-voltage plug with a rear terminal on one end and a high-voltage alligator clip on the other end.
- One blue high-voltage safety cord, 35 cm long, equipped with a high-voltage plug on one end and a high-voltage plug with a rear connector on the other end.
- A 65 W USB-C power adapter.
- 10 rechargeable NiMH batteries, type C or HR14, 4500 mAh.
- A USB-C to USB-C cable, 3 A.
- A carrying case.
- A multilingual quick start guide.
- A test report.
- A multilingual safety data sheet.
- A safety data sheet for NiMH batteries.

Accessories

- Blue alligator clip high-voltage cable, 8 m long.....P01295507
- High-voltage cord with red alligator clip, 8 m long.....P01295511
- High-voltage cord with black alligator clip and rear connector, 8 m long.....P01295514
- High-voltage cord with blue alligator clip, 15 m long.....P01295508
- High-voltage cord with red alligator clip, 15 m long.....P01295512
- High-voltage cable with black alligator clip and rear connector, 15 m long.....P01295515

Spare Parts

- 3-meter red insulated high-voltage cord with alligator clip.....P01295510
- 3-meter blue insulated high-voltage lead with alligator clip.....P01295506
- 3-meter black shielded high-voltage lead with alligator clip.....P01295513
- 1 blue high-voltage lead with 0.35 m rear extension.....P01295516
- Carrying Case.....P01298066
- FF fuse, 200 mA, 1,000 V, 6.3x32 mm, 10 kA (pack of 10).....P01297105
- HR14 NiMH rechargeable battery, 4500 mAh (pack of 10).....P01296054
- AC Adapter - USB-C, 65 W.....P01102208
- USB-C to USB-C Cable, 3 A.....P01295532
- Protective sleeve.....P01298533



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