

# C.A 6255

## 10 A MICRO-OHMMETER



### Check the quality of your connections and bonds using low-resistance measurements!

- Optimized current generator on inductive objects
- Measurement up to 2,500  $\Omega$ , resolution 0.1  $\mu\Omega$
- Automatic compensation of stray voltages
- Calculation of R at a reference temperature - Pt100  $\Omega$  probe
- Automatic discharge after test
- Programmable alarms
- Storage of up to 1,500 measurements
- Communication with a PC



With its intuitive use, the **C.A 6255 "high-performance" micro-ohmmeter** is ideal for measuring very low resistance values with **very high accuracy: 0.1  $\mu\Omega$** .



Large backlit LCD screen with double display

4 safety terminals

INTERFACE for connection to a PC

Wide measurement range with 7 calibres accessible using the rotary switch

Activation / deactivation of the temperature compensation function

Storage of up to 1,500 measurements / rereading of data

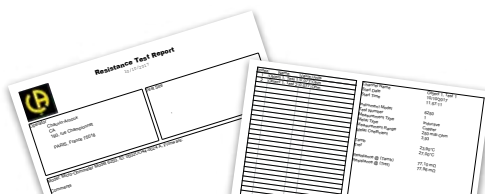
Choice of measurement mode / Selection of the metal for temperature compensation calculation

## DataView® software platform for data processing

Object 1	User	Site
Test 1	Company: Chauvin-ArnoUX	Company: CA
Test 2	Operator: CA	Contact: 19 20 10
	Address 1: 190, rue Championnet	Address 1: 190, rue Championnet
	Address 2:	Address 2:
	City: PARIS	City: PARIS
	State: France	State: France
	ZIP: 75018	ZIP: 75018
	Phone:	Phone:
	Fax:	Fax:
	email:	email:
	Micro-Ohmmeter Model: 6250	
	Serial #: 05020044-0024 A	
	Version:	
	Measurement Date: 5/09/2005	
	Next Test Date: 5/09/2006	
	Object: Object 1	
	Test: Test 1	
	Test Description: Simple test	
	Test Range: 250 milli-Ohm	
	Measurement Type: Inductive	
	Metal Type: Copper	
	Metal Coefficient: 3.93	
	Measurement Temperature: 23.90°C	
	Reference Temperature: 27.00°C	
	Resistance Value @ (Tamb): 77.10 mΩ	
	Resistance Value @ (Tref): 77.96 mΩ	
	Comments: Just a simple test.	

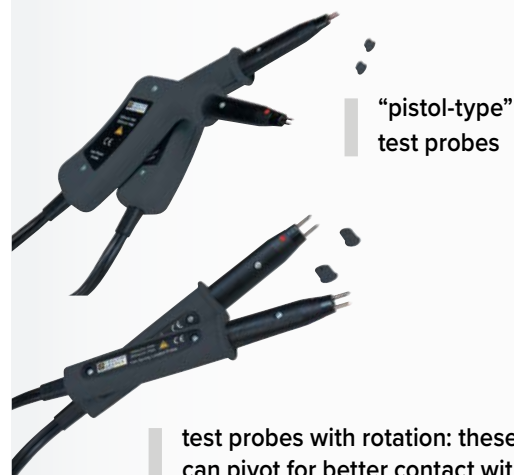
The **MOT module of DataView®** can be used to:

- Configure instruments connected to a PC
- Recover the measurement data stored in the instrument
- Back up the measurement files
- Open saved files
- Process the data and create reports
- Export the data into an Excel spreadsheet
- Export in .pdf format
- Manage the database



## Kelvin 10 A clamps

Two models of retractable 10 A Kelvin test probes are available:



"pistol-type" test probes

test probes with rotation: these can pivot for better contact with the part to be measured

# 3 measurement modes



## NON-INDUCTIVE MODE

for measurements on resistors with a time constant of a few ms (contacts, metallization, etc.)



## INDUCTIVE MODE

for measurements on inductive components (transformers, motors, etc.)



## NON-INDUCTIVE MODE with AUTOMATIC trigger

- for measurements on resistors without a time constant
- for repetitive measurements in production, helping to gain considerable time

# Functions



## TEMPERATURE COMPENSATION

The value of a resistance varies according to the temperature. For reliable supervision allowing the comparison of measurements which are comparable because they were made in the same conditions, it is a good idea always to express a measurement in terms of a given reference temperature. You can perform this calculation by simply pressing a key.



## PROGRAMMABLE ALARMS

Because an audio signal is sometimes all you need to interpret and assess a measurement, it is possible to activate a high and/or low alarm. If it is overshoot, a buzzer sounds (adjustable volume).



## EXTENDED MEASUREMENT

The C.A 6255 is equipped with an internal memory capable of storing 1,500 measurements. They are memorized with two indices, OBJ (object) and TEST (test), which store the results in an ordered manner.

# Numerous applications

- ▶ Measurements on windings (e.g. transformer) without overheating of the C.A 6255



- ▶ Surface finish and metallization
- ▶ Chassis-earth continuity/bonding test

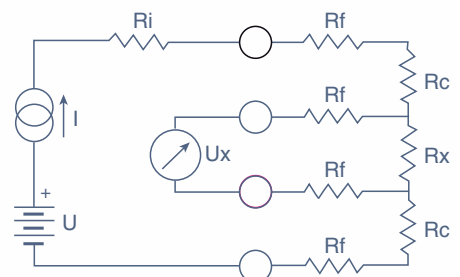


- ▶ Quality of the contacts (switches, relays)



- ▶ Resistance of cables
- ▶ Heating of motors and transformers
- ▶ Verification of mechanical linkage

## 4-wire Kelvin measurement method









# Technical specifications

4-wire measurement method							
Calibre	5.0000 mΩ	25.000 mΩ	250.00 mΩ	2500.0 mΩ	25.000 Ω	250.00 Ω	2500.0 Ω
Resolution	0.1 μΩ	1 μΩ	10 μΩ	0.1 mΩ	1 mΩ	10 mΩ	100 mΩ
1-year accuracy	0.05 % + 1 μΩ	0.05 % + 3 μΩ	0.05 % + 30 μΩ	0.05 % + 0,3 mΩ	0.05 % + 3 mΩ	0.05 % + 30 mΩ	0.05 % + 300 mΩ
Measurement current	10 A	10 A	10 A	1 A	100 mA	10 mA	1 mA
Voltage drop	50 mV	250 mV	2,500 mV	2,500 mV	2,500 mV	2,500 mV	2,500 mV
Measurement modes	Inductive, non-inductive, non-inductive with automatic trigger						
Temperature compensation	By temperature sensor or manual						
Data storage	1,500 measurements						
Communication output	RS 232 link						
Power supply	NiMH rechargeable battery						
Dimensions / Weight	270 x 250 x 180 mm / approx. 4 kg						



## Accessories

Double test probes and Kelvin clamps for micro-ohmmeters			Reference
	10 A Kelvin clamps (set of 2) • L = 3 m	Spade lug	P01101794
	Double 10 A "pistol" test probe (set of 2) • L = 3.15 m • Ø 2 mm test probes • Test-probe spacing: 3.5 mm	Spade lug and 4 mm banana	P01103065
	Double 10 A pivoting test probe (set of 2) • L = 3.15 m • Ø 3 mm test probes • Travel of probes: 10 mm	Spade lug and 4 mm banana	P01103063
	1 A Mini Kelvin clamps (set of 2)	Spade lug	P01101783
	Double 1 A test probe (set of 2) • L = 2.85 m	Spade lug and 4 mm banana	P01102056
<b>Temperature</b>			
	Pt 100 probe		P01102013



### State at delivery

- Delivered with a bag containing:
- 1 set of cables 3 m long terminated by Kelvin clamps
  - 1 Euro mains power lead 2 m long
  - 9 user's manuals (1 per language)
  - 9 simplified user's manuals (1 per language)
  - MOT (Micro-Ohmmeter Transfer) data transfer software on CD-ROM
  - 1 x RS232 communication cable

### Reference to order

C.A 6255 ..... P01143221

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