

**Robust, leakproof micro-ohmmeter  
suitable for on-site, workshop or laboratory use**

**10 A Micro-ohmmeter**

## PRODUCT ADVANTAGES:

- ▶ **Wide measurement range and excellent accuracy due to:**
  - the 4-wire measurement method
  - current reversal
  - test current up to 10 A
- ▶ **Very easy to use**
- ▶ **Automatic measurement mode**
- ▶ **Automatic "on the fly" or manual recording mode**
- ▶ **Possibility of measurements on inductive components**
- ▶ **Measurement prohibited in the presence of a disturbance voltage**
- ▶ **Protection against accidental overloads up to 500 V**
- ▶ **Large backlit LCD display**



## APPLICATIONS:

The C.A. 6240 allows quick detection of any deterioration between 2 contact points. This means it can be used for a very broad range of applications:

- Contact resistance of switches and circuit breakers
- Earth continuity
- Quality of weld spots
- Surface condition and metallizing
- Graphite electrode...

The C.A. 6240 micro-ohmmeter provides reliable, accurate measurements due to its test current of up to 10 A. This accuracy is ensured through:

- use of the 4-wire method which eliminates the effects of the leads' resistances and the contact resistances.
- the possibility of reversing the polarity of the measurement current, thus eliminating the effects of possible interference voltages.

## MEMORIZATION

The possibility of memorizing the results and transferring data by means of the processing software allows users to monitor the changes in the measurements over time, making the C.A. 6240 an essential tool for preventive maintenance.

## ELECTRICAL SPECIFICATIONS

Measurement range	5 to 3,999 $\mu\Omega$	4 to 39.99 m $\Omega$	40 to 399.9 m $\Omega$	400 to 3,999 m $\Omega$	4 to 39.99 $\Omega$	40 to 399.9 $\Omega$
Resolution	1 $\mu\Omega$	10 $\mu\Omega$	100 $\mu\Omega$	1 m $\Omega$	10 m $\Omega$	100 m $\Omega$
Accuracy	$\pm 0.25\% \pm 2$ counts					
Measurement current	10 A	1 A	100 mA	10 mA		
No-load voltage	4 to 6 V					

## GENERAL SPECIFICATIONS

- **Connection:** 4 screw terminals 4mm in diameter
- **Automatic power-off**
- **Power supply:** NiMH rechargeable battery
- **Dimensions:** 273 x 247 x 280 mm
- **Leakproofing:** IP53
- **Data:** optical / USB link
- **Electrical safety:** IEC 61010-1 / CAT III 50V
- **Weight:** 5kg

## TO ORDER:

- **C.A. 6240** ..... **P01.1432.00**

Delivered with a carrying bag containing the following accessories:

- 1 EURO power lead 2m long
- 1 set of 2 x 10 A Kelvin clamps with a 3m cable
- 1 optical / USB communication cable
- 1 "Microhmview" software
- 1 simplified operating manual in 5 languages
- 1 operating manual in 5 languages

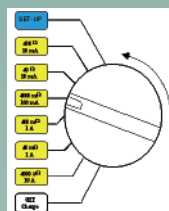
## ACCESSORIES

- **Set of 2 double test probes** ..... **P01.1020.56**
- **Set of 2 Kelvin mini-clamps** ..... **P01.1017.83**
- **C.A. 846 thermohygrometer** ..... **P01.1563.01Z**
- **GB mains power lead 2m long** ..... **P01.2952.53**
- **Optical / RS communication cable** ..... **P01.2952.52**

## MEASUREMENT MODE

The C.A. 6240 is suitable for all types of measurements (inductive components, resistances). It is particularly ergonomic due to its automatic operating capabilities:

- **Automatic measurement mode:** the measurement is triggered as soon as continuity is established between the 2 measurement points => consecutive tests are possible without pressing a key.
- **Automatic recording mode:** this mode allows users to store each measurement result in the memory without having to press a key.

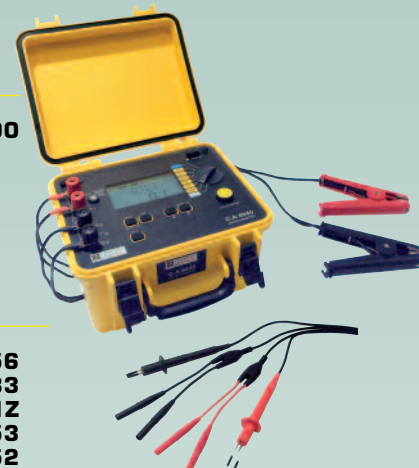


## WIDE MEASUREMENT RANGE

The C.A. 6240 possesses 7 measurement calibres accessible automatically by means of a rotary switch. Each calibre corresponds to a current from 10 A (4,000  $\mu\Omega$ ) to 0.01 A (400  $\Omega$ ) selected automatically.

## LARGE BACKLIT LCD SCREEN

The C.A. 6240 possesses 7 measurement calibres accessible automatically by means of a rotary switch. Each calibre corresponds to a current from 10 A (4,000  $\mu\Omega$ ) to 0.01 A (400  $\Omega$ ) selected automatically.



Your distributor

Check the quality of your electrical joints  
thanks to low resistance measurements!

## 10 A Microhmmeter

### MANY MEASUREMENTS

- ▶ Continuity of grounds
- ▶ Surface and metallization condition
- ▶ Quality of contacts (switches, relays)
- ▶ Resistance of cables and windings
- ▶ Heating of motors and transformers

### CHECK FOR GOOD MECHANICAL BONDS

- Broad measurement range: from 1  $\mu\Omega$  to 2,500  $\Omega$
- Accuracy guaranteed:
  - ▶ 4-wire measurement method
  - ▶ automatic compensation of spurious voltages
- 3 measurement modes
- "Temperature compensation" function for a comparative result
- Giant back-lit LCD display

## MEASUREMENTS 3 measurement modes possible depending on the application



### INDUCTIVE MODE

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



### NON-INDUCTIVE MODE

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

### AUTO NON-INDUCTIVE MODE WITH AUTOMATIC TRIGGERING

for measurements on resistances with no time constant

# Measurements in the field, in the workshop, or in the laboratory...

## FUNCTIONS

### Temperature compensation



The value of a resistance varies with temperature.

For reliable tracking, measurements can only be compared when made under the same conditions, this means it is judicious to refer measurements to the same reference temperature in all cases. The instrument performs this calculation automatically: you simply press a key.

(Pt100 probe connector on the front panel)



### Programmable alarms



Because an audible signal is sometimes all you need to interpret and evaluate a measurement, a high and/or low alarm threshold can be activated. When it is crossed, an audible warning is triggered (its volume can be adjusted).

### Extended memory



The C.A 6250 has internal memory to store 1,500 measurements.

Recording is done using two indices, OBJ (object) and TEST (test), so as to store the results in an ordered manner.

## FEATURES



### Large back-lit LCD display

- ➔ Result easy to read
- ➔ Many symbols and indications (for a better understanding of the measurement and instrument operation.)



### Broad measurement span,

with 7 ranges that can be manually selected on the rotary switch

Range	Resolution	Accuracy over 1 year	Measurement current
5.0000 mΩ	0,1 μΩ	0,05 % + 1,0 μΩ	10 A
25.000 mΩ	1 mΩ	0,05 % + 3 μΩ	10 A
250.00 mΩ	10 mΩ	0,05 % + 30 μΩ	10 A
2500.0 mΩ	0,1 mΩ	0,05 % + 0,3 mΩ	1 A
25.000 Ω	1 mΩ	0,05 % + 3 mΩ	100 mA
250.00 Ω	10 mΩ	0,05 % + 30 mΩ	10 mA
2 500.0 Ω	100 mΩ	0,05 % + 300 mΩ	1 mA

- Power supply: rechargeable NiMH battery
- IP 64 : (housing closed) / 53 (housing open)
- Electrical safety: as per standard EN 61010-1 (Ed. 2001)
- Dimensions : 270 x 250 x 180 mm
- 50 V CAT. III
- Mass : 4 kg

## TO ORDER



- C.A 6250  
PO1.1432.01  
10 A Microhmmeter

Delivered with an accessories pouch containing one EURO mains power cord 2 m long and a set of two 2 m Kelvin clamp cables



## ACCESSORIES

- Set of two 2 m cables with double probe tips ..... PO1.1017.82
- Set of two 2 m cables with miniature Kelvin clips ..... PO1.1017.83
- Pt100 temperature probe ..... PO1.1020.13
- Cable 2 m long for remote use of the Pt100 probe ..... PO1.1020.14
- Serial printer + connecting cord ..... PO1.1029.03
- GB power cord ..... PO1.2952.53