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

- Optimized current generator on inductive objects
- Measurement up to 2,500 Ω, resolution 0.1 μΩ
- Automatic compensation of stray voltages
- Calculation of R at a reference temperature – Pt100 Ω 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 μΩ.

**DataView® software platform for data processing**

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 overshot, 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

<table>
<thead>
<tr>
<th>Measurement method</th>
<th>Calibre</th>
<th>5.0000 mΩ</th>
<th>25.000 mΩ</th>
<th>250.00 mΩ</th>
<th>2500.0 mΩ</th>
<th>25.000 Ω</th>
<th>250.00 Ω</th>
<th>2500.0 Ω</th>
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</thead>
<tbody>
<tr>
<td>4-wire measurement method</td>
<td>Resolution</td>
<td>0.1 µΩ</td>
<td>1 µΩ</td>
<td>10 µΩ</td>
<td>0.1 µΩ</td>
<td>1 µΩ</td>
<td>10 µΩ</td>
<td>100 µΩ</td>
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<tr>
<td>1-year accuracy</td>
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<td>0.05 %</td>
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<td>0.05 %</td>
<td>0.05 %</td>
<td>0.05 %</td>
<td>0.05 %</td>
</tr>
<tr>
<td>+ 1 µΩ</td>
<td>+ 3 µΩ</td>
<td>+ 30 µΩ</td>
<td>+ 3 mΩ</td>
<td>+ 30 mΩ</td>
<td>+ 300 mΩ</td>
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<tr>
<td>Measurement current</td>
<td>10 A</td>
<td>10 A</td>
<td>10 A</td>
<td>1 A</td>
<td>100 mA</td>
<td>10 mA</td>
<td>1 mA</td>
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</tr>
<tr>
<td>Voltage drop</td>
<td>50 mV</td>
<td>250 mV</td>
<td>2.500 mV</td>
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<td>2.500 mA</td>
<td>2.500 mA</td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 A Kelvin clamps (set of 2)</td>
<td>Spade lug P0101794</td>
</tr>
<tr>
<td>Double 10 A &quot;pistol&quot; test probe (set of 2)</td>
<td>Spade lug and 4 mm banana P0103065</td>
</tr>
<tr>
<td>Double 10 A pivoting test probe (set of 2)</td>
<td>Spade lug and 4 mm banana P0103063</td>
</tr>
<tr>
<td>1 A Mini Kelvin clamps (set of 2)</td>
<td>Spade lug P0101783</td>
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<tr>
<td>Double 1 A test probe (set of 2)</td>
<td>Spade lug and 4 mm banana P0102056</td>
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<tr>
<td>Pt100 probe</td>
<td>P0102013</td>
</tr>
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</table>

Temperature

- Pt100 probe P0102013

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