

# C.A 6292

## 200 A digital micro-ohmmeter



- Resolution: 0.1  $\mu\Omega$
- Adjustable test current up to 200 A
- Automatic mode: 50 A, 100 A, 150 A and 200 A
- Unlimited test duration up to 100 A
- Safe measurements: Both Sides Grounded method (BSG mode)
- Internal cooling system
- Storage of up to 8,000 measurements
- Communication with PC via USB
- Site-proof case for difficult environments



**DataView<sup>®</sup>**



**USB<sup>B</sup>**  
UNIVERSAL SERIAL BUS

*Measure up*



# C.A 6292: 200 A DIGITAL MICRO-OHMMETER

## Ergonomics

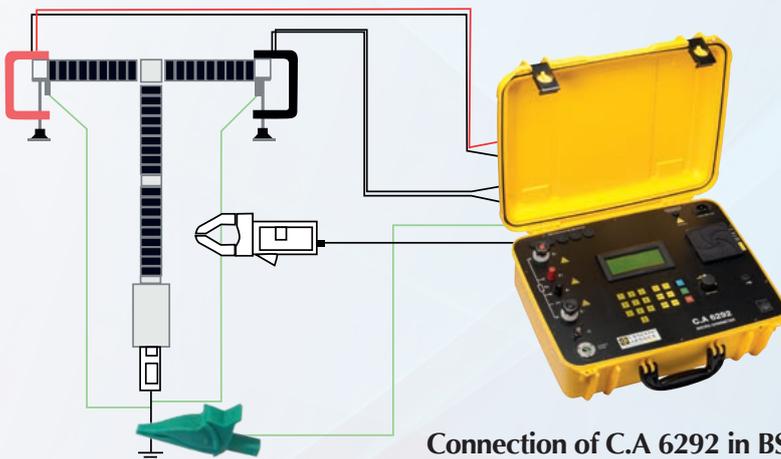
The C.A 6292 micro-ohmmeter is a portable measuring instrument supplied in a rugged, waterproof site case. Its clearly-identified connection terminals limit the risk of errors and allow quick connection of the measurement leads.

The measurement results are displayed instantaneously on the backlit LCD screen for easy reading. The C.A 6292 can be configured directly using the rotary knob on the instrument or via a PC by means of the USB link.

## Safety & reliability

### Safety first!

The C.A 6292 allows measurement in total safety, for both people and equipment. In order to eliminate any risks due to inductive phenomena, the BSG method maintains earthing on both sides of the object measured.



Connection of C.A 6292 in BSG measurement mode  
Use of the optional MR 6292 clamp.



Air holes  
for ventilation

4 connection  
terminals

Earth/ground  
terminal

Connector for  
current clamp  
(option) for BSG  
measurement

Alphanumeric  
keypad  
Input of measurement or  
instrument configurations

## DataView® SOFTWARE

The **DataView®** data processing software platform can be used to:

- ✓ Configure instruments connected to a PC or via Bluetooth
- ✓ Recover the measurement data recorded in the instrument
- ✓ Back up measurement files

- ✓ Open saved files
- ✓ Process the data and create reports
- ✓ Export the results into an Excel spreadsheet
- ✓ Export the results in .pdf format
- ✓ Manage database

Test current

Results

Elapsed time/  
test duration

Current flowing to  
earth (BSG)

Date & Time

```

R= 100µΩ
It=142A    Ig=8.0A
DURATION: 015/060s
02/10/13  10:25 AM
  
```



Backlit LCD screen,  
4 lines of 20 characters

Mains power socket  
for connecting the power  
supply cable



Fan

USB

On/Off  
button

Rotary switch

3 function keys

Mode for selecting the type of  
measurement (classic or BSG), Start/  
Stop for starting and stopping the  
test

- navigation in the menus
- adjustment of test current

## Reliable measurements

The four-wire measurement method, based on Kelvin's principle, makes it possible to eliminate the errors due to the test-lead resistances and the contact resistances. This means the **C.A 6292** offers excellent measurement accuracy for low resistance values, thanks to its 0.1  $\mu\Omega$  resolution and its accuracy of approximately 1% for measurement. The test current can be adjusted up to 200 A, as required. The **C.A 6292** can also record up to 8,000 measurement results.

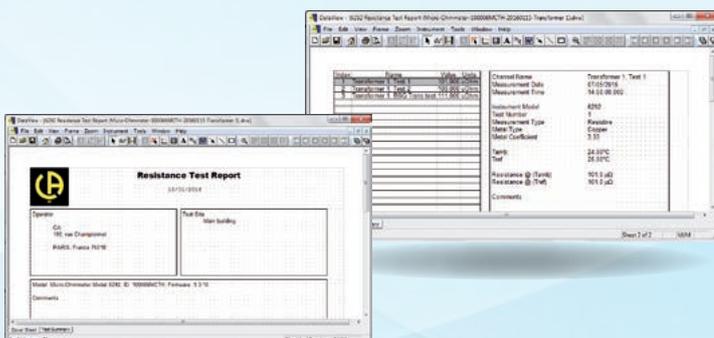
## Applications

The **C.A 6292** is ideal for a wide range of sectors, including:

- ✓ electricity distribution,
- ✓ maintenance and repair firms
- ✓ railways,
- ✓ metallurgy,
- ✓ electrical equipment manufacturers (cut-off systems, circuit breakers, etc.).

It can be used for multiple applications:

- ✓ Contact resistance testing on MV/HV cells
- ✓ Verification of the quality of the contacts on the circuit breakers, switches, relays, etc.
- ✓ Resistance testing on busbars, cables, windings, etc.
- ✓ Continuity testing on rails, axles and welds
- ✓ Checking of surface condition and bonding/metallization
- ✓ Testing of cut-off devices



## ≡ C.A 6292: 200 A DIGITAL MICRO-OHMMETER

Test current	Programmable from approx. 20 A to 200 A		
Resistance	0.1 $\mu\Omega$ to 2 m $\Omega$	2 to 200 m $\Omega$	200 m $\Omega$ to 1 $\Omega$
Resolution	0.1 $\mu\Omega$ (200 A max)	10 $\mu\Omega$ (25 A max to 200 m $\Omega$ )	1 m $\Omega$ (5 A max to 1 $\Omega$ )
Accuracy	$\pm$ 1% from 50 $\mu\Omega$ to 1 $\Omega$		
Output voltage	110 V <sub>AC</sub> : 4.2 V @ 200 A 220 V <sub>AC</sub> : 8.6 V @ 200 A		
Maximum load resistance	110 V <sub>AC</sub> : 20 m $\Omega$ @ 200 A 220 V <sub>AC</sub> : 42 m $\Omega$ @ 200 A		
Measurement method	4 Kelvin-type connection terminals		
Test mode	Normal or BSG (Both Sides Grounded)		
Test duration	Adjustable from 5 to 120s @200 A / unlimited up to 100 A		
Data storage	Up to 8,000 measurement results		
Interface	USB 2.0		
Software	DataView®		
Power supply	100 to 240 V <sub>AC</sub> – 50/60 Hz		
Dimensions	502 x 394 x 190 mm		
Weight	13 kg approx. (excluding accessories)		
Operating temperature	0 °C to +55 °C		
Storage temperature	-10 °C to +70 °C		
Humidity	95% RH		
Protection	Protected against voltage surges, short-circuits, overheating and overvoltages on the output terminals		
Ingress protection	IP54		
Electrical safety	IEC 61010-1		

### CURRENT MEASUREMENT WITH THE OPTIONAL MR6292 CLAMP (BSG MODE)

Measurement range	1.0 - 50.0 A <sub>DC</sub>
Resolution	0.1 mA
Intrinsic uncertainty	$\pm$ (1,5% + 2 Digit)
Output signal	10 mV / A <sub>DC</sub>
Load impedance	> 100 k $\Omega$ // 100 pF
Influence of conductor position in jaws	0.50 %

## References

C.A 6292 200 A micro-ohmmeter ..... P01143300

### Accessories

1 set of 2 Kelvin leads 15 m long (red / black)  
with adjustable-clamp connections..... P01295487  
1 MR 6292 current clamp for C.A 6292 ..... P01120470

### Replacement parts

1 set of 2 Kelvin leads 15 m long (red / black)  
with adjustable-clamp connections ..... P01295486  
1 green earth/ground lead with crocodile clip ..... P01295488  
1 set of 5 fuses T 15A 250V 5x20mm ..... P01297101  
1 USB-A USB-B cable 1.5m long ..... P01295293

## State at delivery

Delivered in a site case with an additional case containing: 1 mains power cable, 1 set of 2 Kelvin leads 6m long (red / black) with adjustable-clamp connections, 1 green earth/ground lead 3m long terminated by a crocodile clip, 1 USB A/B cable 1.5 m long, 1 user manual on CD-ROM (1 file per language), 1 multilingual Quick Start Guide, 1 CD-ROM containing the MOT and DataView® software, 1 multilingual safety datasheet.



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