

CA 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®



CA 6292: 200 A DIGITAL MICRO-OHMMETER

Ergonomics

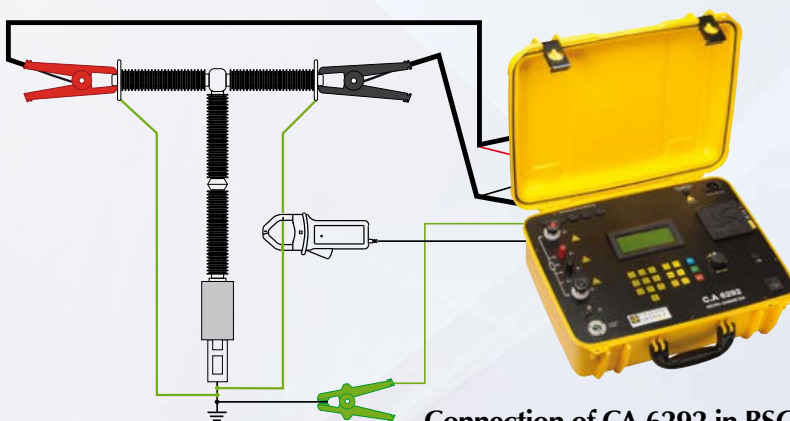
The CA 6292 micro-ohmmeter is a portable measuring instrument supplied in a rugged, waterproof site case. Its clearly-identified connection terminals limit the risk of errors and allow quick connection of the measurement leads.

The measurement results are displayed instantaneously on the backlit LCD screen for easy reading. The CA 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 CA 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 CA 6292 in BSG measurement mode
Use of the optional MR 6292 clamp.



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

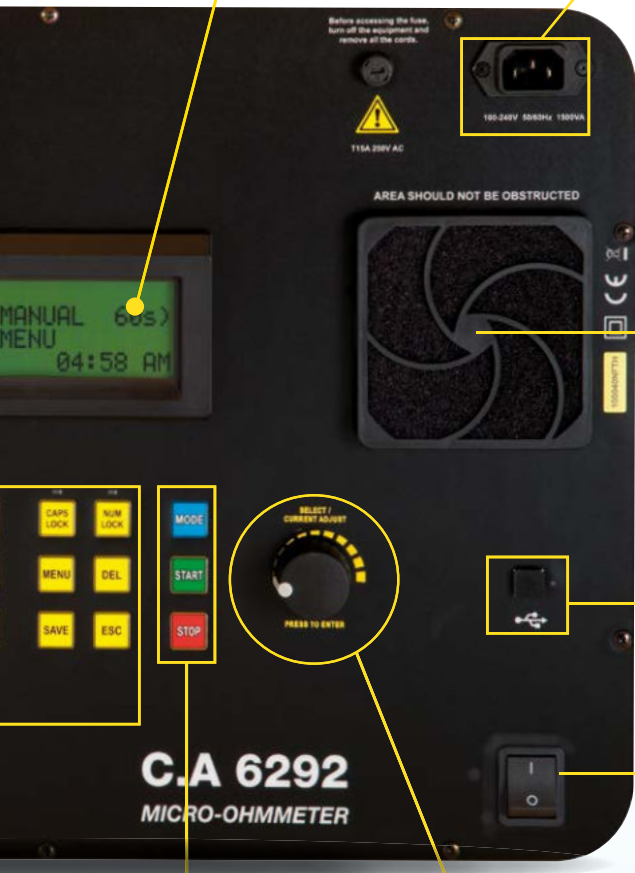
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R= 100µΩ
It=142A      Ig=8.0A
DURATION: 015/060s
02/10/13    10:25 AM
  
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Backlit LCD screen,
4 lines of 20 characters

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 **CA 6292** offers excellent measurement accuracy for low resistance values, thanks to its 0.1 µΩ resolution and its accuracy of approximately 1% for measurement. The test current can be adjusted up to 200 A, as required. The **CA 6292** can also record up to 8,000 measurement results.

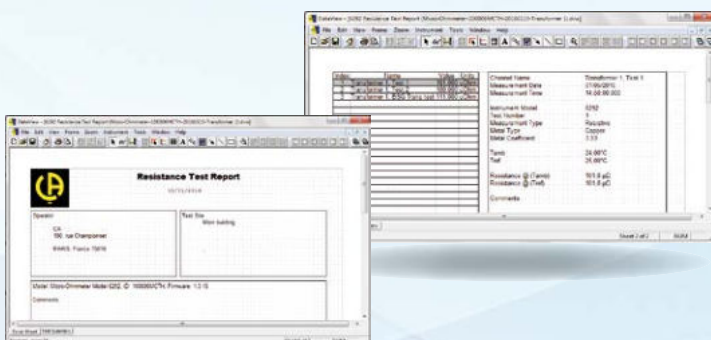
Applications

The CA 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, etc.
- ✓ Continuity testing on rails, axles and welds
- ✓ Checking of surface condition and bonding/metallization
- ✓ Testing of cut-off devices



CA 6292: 200 A DIGITAL MICRO-OHMMETER

Test current	Programmable from approx. 20 A to 200 A		
Resistance	0.1 $\mu\Omega$ to 2 m Ω	2 to 200 m Ω	200 m Ω to 1 Ω
Resolution	0.1 $\mu\Omega$ (200 A max)	10 $\mu\Omega$ (25 A max to 200 m Ω)	1 m Ω (5 A max to 1 Ω)
Accuracy	$\pm 1\%$ from 50 $\mu\Omega$ to 1 Ω		
Output voltage	110 V _{AC} : 4.2 V @ 200 A 220 V _{AC} : 8.6 V @ 200 A		
Maximum load resistance	110 V _{AC} : 20 m Ω @ 200 A 220 V _{AC} : 42 m Ω @ 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 _{AC} – 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 _{DC}
Resolution	0.1 mA
Intrinsic uncertainty	$\pm (1,5\% + 2 \text{ Digit})$
Output signal	10 mV / A _{DC}
Load impedance	> 100 k Ω // 100 pF
Influence of conductor position in jaws	0.50 %

References

CA 6292 200 A micro-ohmmeter P01143300

Accessories

1 set of 2 Kelvin leads 6 m long (red / black)
with adjustable-clamp connections..... P01295486
1 set of 2 Kelvin leads 15 m long (red / black)
with adjustable-clamp connections..... P01295487
1 set of 2 Kelvin leads 15 m long (red / black)
with 200 A Kelvin clamp P01295495
1 MR 6292 current clamp for CA 6292 P01120470

Replacement parts

1 set of 2 Kelvin leads 6 m long (red / black)
with 200 A Kelvin clamp P01295494
1 green earth/ground lead with crocodile clip P01295488
1 set of 5 fuses T 15 A 250 V 5 x 20 mm P01297101
1 USB-A USB-B cable 1.5 m 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 6 m long (red / black)
with 200 A Kelvin clamp, 1 green earth/ground lead 3 m 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.

