

Micro-Ohmmeter VG-CSx00-II

- ▶ Unlimited continuous mode
- ▶ Measures with both sides grounded
- ▶ Comfort push/pull connections
- ▶ Ext. Pt-100 temperature comp.
- ▶ Remote control
- ▶ Thermal printer
- ▶ USB PC-Interface
- ▶ USB stick (data logger)
- ▶ 4.3" LCD graphic display
- ▶ lightweight and compact



Technical description

The micro-ohmmeters VG-CSx00 are used for ohmic measurements of high power switches etc. All instruments are identical, except the maximal measuring current. The strengths of the instruments are the easy handling, rugged design and low weight.

The 4.3" LCD graphic display, enables measurements in darkness, coldness and full sunlight.

Designed for continuous measurements, the instruments have no limitation for the numbers of measurement cycles.

An internal thermal printer is standard to enable logging of test results.

The contact resistance measurements confirm to the following standards:

ANSI C37.09-1979 (5.14), IEC 1208 and IE 694 (6.4)

With the option "remote logging" all stored measuring values can be downloaded to a personal computer, laptop or Android device.

Measurement data is saved directly to a USB stick.

A cable remote control or a remote control dongle is available on request.

The VG-CS200, with a weight of 7.5kg only, is very handy and easy transportable. The rugged transport case contains all test cables and accessories.

Typical applications are ohmic tests of:

- Circuit breakers
- Disconnecting switches
- High current busbar joints
- Cable splices
- Welding joints
- Ground connections
- Railway parts



Waterproof trolley

To protect the instrument and the accessories from water, dust, sand and mechanical impacts a waterproof IP67 trolley from «Pelican» is used. The trolley has also handles on all four sides to carry it.



Wireless remote control

The wireless remote control makes it possible to trigger the measurement. The measurement data can be read out with an Android mobile phone to be sent by e-mail or other message apps.



Remote control

The remote control makes it possible to manage measurements on tall circuit breakers while leaving the equipment on the ground. All important instrument functions are available on the remote control panel.



PC-software type VG-CS-WIN

The Windows software makes it easy to manage and save all test results.

Order No: VG-CS-WIN



Wireless Remote control type VG-CS-Fern-BT

Remote control with an Android device from Android 5.0 and up

Order No: VG-CS-Fern-BT

For dongle with fully feature set:

Order No: VG-CS-WIN+



Sense cable 2.5mm² type VG-CS-SNE2.5/6

L=6m with test probe & clips

Red: Order No: VG-CS-SNE2.5/6R

Black: Order No: VG-CS-SNE2.5/6B



Sense cable extension 2.5mm² type VG-CS-SNEV2.5/10

L=10m with one 4mm connector and one 4mm plug

Red: Order No: VG-CS-SNEV2.5/10R

Black: Order No: VG-CS-SNEV2.5/10B



Sense cable 2.5mm² type VG-CS-SNE-ABGR ***

Sense cable with test needles with a defined distance

sense distance=50mm, L=1.5m: Order No: VG-CS-SNE-ABGR50/1.5



Current cable 35mm² type VG-CS-STR35 **

single cable with one connector and one clamp

L=0.6m: Order No: VG-CS-STR35/0.6

L=5.0m: Order No: VG-CS-STR35/5

L=10.0m: Order No: VG-CS-STR35/10



Current cable extension 35mm² type VG-CS-STRV35 **

single cable with one connector and one cable plug

L=5.0m: Order No: VG-CS-STRV35/5

L=10.0m: Order No: VG-CS-STRV35/10



Current cable 4mm² with fuse type VG-CS-STR4 ***

current cable with one connector and one banana plug

Red: Order No: VG-CS-STR4/***R

Black: Order No: VG-CS-STR4/***B



Power cable type VG-CS-NK

L=3m

VG-CS 200&300: Order No: VG-CS-NK2/300

VG-CS 400&600: Order No: VG-CS-NK4/600



PE grounding cable 2.5mm² type VG-CS-EK2.5

single cable with one cable socket and one clamp

L=1.5m: Order No: VG-CS-EK2.5/1.5

L=6.0m: Order No: VG-CS-EK2.5/6

L=15.0m: Order No: VG-CS-EK2.5/15

** Please note that a 35mm²-power cables longer than 5m are not suitable for the VG-CS 400 and 600. Contact us for an individual solution.

*** Customer specific changes



Temperature sensor type VG-CS-Pt100/5

L= 5m cable with Velcro fastner
Order No: VG-CS-Pt100/5



Remote control type VG-CS-Fern

with display, keyboard and sense plugs
incl. 5m cable
Order No: VG-CS-Fern



Remote control type VG-CS-Fern-DK

Simple one button remote control
incl. 6m cable
Order No: VG-CS-Fern-DK



Remote control foot pedal type VG-CS-Fern-FP

To trigger the measurement with connector and foot pedal
incl. 6m cable
Order No: VG-CS-Fern-FP



Transport carrying case type VG-CS-TRK

VG-CS 2-600: Order No: VG-CS-TRK2-600



Cable bag type VG-CS-TRT

44cm x 32cm x 15cm
Order No: VG-CS-TRT

Measuring ranges:	0...20.00μΩ, 0...200.0μΩ, 0...2.000mΩ, 0...20.00mΩ, 0...200.0mΩ 0...999.9mΩ			
Display:	Sunlight readable LCD 4.3" graphic display with a resolution of 480x272 dots			
Display resolution:	0.01μΩ... 0.1mΩ			
Accuracy:	0 ... 1000μΩ, @ 200A/ 25°C = ±0.05% FS 1 ... 25mΩ, @ 200A/ 25°C = ±0.2% FS 25 ... 999mΩ, @ 5 - 200A/ 25°C = ±0.5% FS			
Reproducibility:	<0.1%			
Measuring current:	VG-CS200-II	VG-CS300-II	VG-CS400-II	VG-CS600-II
	5 - 205A	5 - 305A	5 - 405A	5 - 605A
Continuous current:	205A	300A	300A	300A
Maximum test voltage:	5V			
Current ramp:	The test current rises following a linear ramp, holds the preselected value and falls with a linear ramp.			
Measuring interval:	No limitation of the number of current cycles @ 200A for the VG-CS200 No limitation of the number of current cycles @ 300A for the VG-CS300 - 600			
Result data logging:	The last 100 data sets are stored internally. Unlimited data sets for the external USB stick			
Data logger:	Accepts FAT32 formatted USB sticks			
Sense input:	Independent polarity with banana jacks.			
Input voltage:	Max. 5V			
Input impedance:	>200kΩ			
Shunt output:	100μV/A +/-1%, banana jack red = plus, banana jack black = negative			
Shunt voltage:	20mV @ 200A for VG-CS200, 60mV @ 600A for VG-CS600			
Data interface:	USB, various measuring protocols may be set (VG-CS Win, data output, data control)			
Pass/Fail:	Display signalization, 3 preset limits, optional alarm contacts			
Date/time:	The instrument has a battery buffered real time clock			
Buzzer:	An acoustic click for keyboard operation or an ongoing test			
Ambient temperature:	-40°C ... +60°C			
Humidity:	Max. 95% non condensing			
LVD:	RL2014-35-EU, EN 61010-1:2011			
EMC:	RL2014-30-EU, EN 61326:2008 + A1:2009, EN61000-6-1/2/3/4:2007			
Breaker standards:	ANSI C37.09-1979 (5.14), IEC 1208, IEC 694 (6.4)			
Printer:	24-characters, standart thermal paper (58x32mm diameter)			
Unit manipulations:	Keyboard, external PC or Android phone/tablet			
Manipulations:	Menu operated, easy to use			
Power supply:	100...240V, 16A, 50-60Hz			
Power consumption:	1530W @ 5V for VG-CS200, 3030W @ 5V for VG-CS600			
CE-conformity:	Fulfilled			
Dimensions:	L x W x D: 300 x 360 x 130 mm			
Weight:	7.5 kg (VG-CS200), 12 kg (VG-CS600)			
Warranty:	2 Years			
Software (optional):	PC-software to transfer and log stored data sets, Order No: VG-CS WIN			
Accessories:	<ul style="list-style-type: none"> - Customer specific changes - Without thermal printer - Other ramp times - Current clamp (for example 20mV/A), to measure grounded systems - USB stick 			

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Mess- und Regeltechnik
 Lausenerstrasse 13a
 CH-4410 Liestal, Switzerland
 Tel.+ 41 61 921 40 90
 Fax+ 41 61 921 40 83

www.mostec.ch
 info@mostec.ch