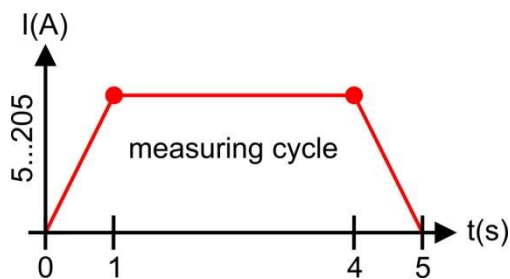


Portable Micro-Ohmmeter VG-BAT-x00

- ✓ Battery powered
- ✓ Lightweight and compact
- ✓ Real measuring current over whole measuring cycle
- ✓ Measures with both sides grounded
- ✓ Sunlight readable 4.3" graphic LCD
- ✓ USB PC-Interface
- ✓ USB logger
- ✓ Optional thermal printer
- ✓ Optional mobile phone control



Technical description

The portable micro-ohmmeters VG-BAT-x00 are used for resistance measurements of high power switches etc. The strengths of the instruments are the easy handling, battery powered, rugged design and low weight.

The VG-BAT-x00 enables a real direct current measurement for highest accuracy. The current rises linear for 1 second than holds the preset current for 3 seconds and falls back within another 1 second.

The advanced build-in LiFePO₄ battery offers maximum power with excellent safety and outstanding life.

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

Measurement data is saved directly to a USB stick.

The USB PC-Interface is used to control the device or read out the results automatically by computer.

Read out the device history or start a measurement with an Android phone or tablet. Send the data directly to your office.

The VG-BAT-200, with a weight of 5.2kg only, is very handy and easy transportable.

Typical applications are ohmic tests of:

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

Accessories



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



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



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



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



Wireless Remote control type VG-CS-Fern-BT
Remote control dongle for 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+



PC-software type VG-CS-WIN
The Windows software makes it easy to manage and save all test results.
Order No: VG-CS-WIN

Technical data

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:	5 - 205A (VG-BAT-200), 3 adjustable preset currents
Maximum test voltage:	5.5V
Current ramp:	The test current rises following a linear ramp, holds the preselected value and falls with a linear ramp.
Battery: Charging:	LiFePO4, 75Wh CCCV, 1.5hours
Number of Measurements:	200A 27mΩ 58# 100A 27mΩ 229# 50A 27mΩ 916# 200A 5mΩ 308# 100A 5mΩ 1237# 50A 5mΩ >2000# 200A 1mΩ 1546# 100A 1mΩ >2000# 50A 1mΩ >2000#
Measuring interval:	No limitation of the number of current cycles
Result data logging:	The last 100 data sets are stored internally. Unlimited data sets for the external USB stick.
Automatic power switch-off:	Default 2 minutes
Data logger:	Accepts FAT32 formatted USB sticks
Sense input: Input voltage: Input impedance:	Independent polarity with banana jacks. Max. ±5V >200kΩ
Shunt output: Shunt voltage:	100μV/A +/-1%, banana jack red = plus, banana jack black = negative 20mV @ 200A for VG-BAT-200
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:	-20.0°C ... +50.0°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
Printer:	Optional, 24-characters standard thermal paper (58x32mm diameter)
Unit manipulations:	Keyboard, external PC or Android phone/tablet
Manipulations:	Menu operated, easy to use
Power supply:	100...240V, 1.3A, 50-60Hz
CE-conformity:	Fulfilled
Dimensions:	L x W x D: 300 x 248 x 195 mm
Weight:	5.2 kg (VG-BAT-200)
Warranty:	2 Years
Software (optional):	PC-software to transfer and log stored data sets, Order No: VG-CS WIN
Special accessories:	-Customer specific changes -Current clamp (for example 20mV/A), to measure dual grounded systems -USB stick