

## Data Output of VGCS xx Versions 4.40/5.20 and above

This Document describes briefly the data string which is sent out on the serial port of the VGCS 200/600 if the data output option is enabled.

1. First you must enable the data output option on your instrument. This is done as follows:
  - Turn on the VGCSxx
  - Enter the Service menu by pressing and holding the VGCSxx keys [F1] and [F2] while turning the VGCSxx on. Keep holding the keys [F1] and [F2] until the service menu appears on the display.
  - Use the keys [F1] and [F2] to move to the Data Output Enable menu number 8.
  - Press Enter and turn the item on/off with the keys [+] and [-]. Note: If it is not possible to activate this option, you might need to enter the soft code in menu number 7 first.
  - Press Enter again to save the changes and leave the service menu by pressing the [Esc] key.
2. Now your instrument outputs the following data string after each completed measurement. Description of the output data, following an example:

12:00 07.04.09;No:69;305.1mOhm;50A [CR] [LF]

12:00 07.04.09	Time and Date
12:00 07.04.09;	Separator (;)
12:00 07.04.09;No:69	Measurement number in the VGCSxx
12:00 07.04.09;No:69;	Separator (;)
12:00 07.04.09;No:69;305.1mOhm	Measurement value with unit
12:00 07.04.09;No:69;305.1mOhm;	Separator (;)
12:00 07.04.09;No:69;305.1mOhm; 50A	Measuring current with unit
12:00 07.04.09;No:69;305.1mOhm;50A [CR]	Carriage return
12:00 07.04.09;No:69;305.1mOhm;50A [CR] [LF]	Line feed

3. Hardware Setup  
If you wish to verify the output data with a personal computer, connect the VGCSxx to the PC with the correct cable. If you are using the RS232 cable, make sure, you are not using a standard cable with all 9 wires. Use a cable that has only the pins 2, 3, 5 wired. If you are using a USB cable, any standard USB cable can be used.

In a standard Windows installation open the program called Hyper Terminal:  
START → Run → hyperterm.exe → Enter

The HyperTerminal opens.

Provide a name for a connection and press [OK]:      Example:      VGCSxx Data

Select the proper connection type in the lowest line of the window, which is the COM port you are planning to use, then press [OK]:      Example:      COM1

A new window opens.

Set the data rate in bits per second to:      9600

Set the number of bits to:      8

Set parity to:      NONE

Set number of stop bits to:      1

Set the handshake to:      None

Then press [OK]

If you have selected the proper COM port / cable you will see the output data of the VGCSxx from now on.