

History and release notes for the Rohde & Schwarz DC Power Supply NGSM32/10 and NGSM60/5

Contents

Contents	1
NGSM driver history for CVI/VXIIPnP	2
NGSM driver history for LabVIEW	2
Supported Interfaces	3
Getting Started.....	3
RS232C Connection.....	3
Serial Interface Configuration.....	3
NI VISA.....	4
Agilent VISA	4
LabWindows/CVI	5
Additional Help	5
VXIplug&play Instrument Driver for VEE, C++, C#, Visual Basic, Visual Basic .NET etc.....	5
C#.....	5
Visual Basic .NET.....	5
Additional Help	5
Additional Information.....	5
LabVIEW.....	5
LabVIEW 7.1 driver	5
LabVIEW 8.2 driver	5

NGSM driver history for CVI/VXIPnP		
Revision	Date	Note
1.3	04/2007	Modifications: Added RS 232C Interface to rsngsm_init rsngsm_defaultInstrSetup set SERV to 0 rsngsm_configReadVoltCurr
1.2	06/2006	Modifications: - Added VXI Plug&Play mandatory functions - Added CHM help
1.1	12/1998	Modifications: - Instrument driver renamed from rsngsm32 to rsngsm. - UIR example updated according to the latest VXIPnP specification.

NGSM driver history for LabVIEW		
Revision	Date	Note
1.2	04/2007	Modifications: Added RS 232C Interface to RSN GSM Initialize.vi Modified RSN GSM Application Example

Supported Interfaces

The current revision of instrument driver supports interfaces:

- IEEE 488.2 (IEC-625, GPIB)
- RS 232C

RS232C - Getting Started

RS232C Requirements

Option NGSM-B1 interface card (for NGSM32/10) from up firmware release 429.009.03.

Option NGSM-B3 interface card (for NGSM60/5) from up firmware release 429.040.01 (from up NGSM60/5 with serial no. 148).

All options NGSM-B1 and NGSM-B3, which are equipped with the above listed firmware releases or higher, are marked by a paper label indicating the firmware release and will be easy visible after removing the left-side cover of the NGSM.

See NGSM Manual 4.2.4 (Crossed TxD and RxD wires required).

Serial Interface Configuration

To set up the connection successfully, the interface parameters of the Power Supply and the computer must correspond with each other.

Set the NGSM interface as follows:

9600 Baud	Switch 1,2,3 to OFF
No Handshake	Switch 4, 5 to OFF
Echo OFF	Switch 7 OFF
Enable RS232C Interface	Switch 8 ON

The procedure for changing the parameters is described in the manual section 4.2.1.

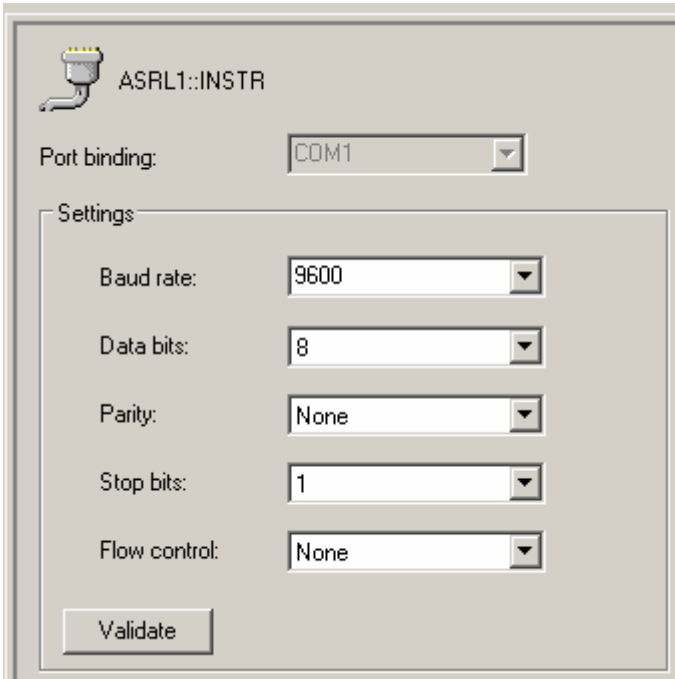
The driver sets the Data bits, Parity, Stop Bits and the Flow Control, see above.

It is only necessary to set the correct VISA baud rate, see below.

NI VISA

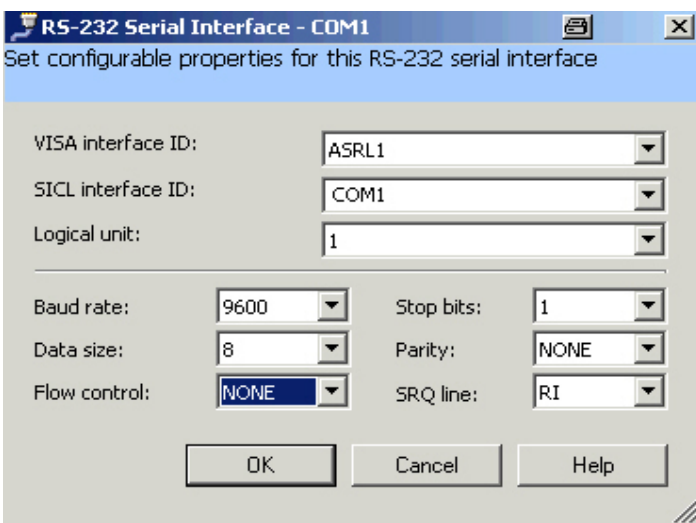
Use the National Instruments Measurement & Automation Explorer to set the parameters or the viSetAttribute function.

The driver sets the Data bits, Parity, Stop Bits and the Flow Control, see below.



Agilent VISA, IO Library M01.01 or higher required.

Use the IO library to set the parameters or the viSetAttribute function.



LabWindows/CVI

Additional Help

The LabWindows/CVI instrument driver consists of a ZIP archive containing the driver sources. In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources.

VXIplug&play Instrument Driver for VEE, C++, C#, Visual Basic, Visual Basic .NET etc.

C#

A wrapper is necessary to enable a direct access to the driver DLL.
The rsngsm.cs wrapper for C# is automatically installed in the ~VXIpnP\WinNt\include directory.

Visual Basic .NET

A wrapper is necessary to enable a direct access to the driver DLL.
The rsngsm.vb wrapper for .NET is automatically installed in the ~VXIpnP\WinNt\include directory.

Additional Help

In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources in the ~VXIpnP\WinNT\rsngsm directory.

Additional Information

For more information regarding the VXIPnP instrument drivers, please read the readme.txt file that comes with each driver.

LabVIEW

LabVIEW 7.1 driver

Please use the LabVIEW 7 driver.

LabVIEW 8.2 driver

Please use the LabVIEW 8 driver.