History and release notes for the Rohde & Schwarz Handheld Spectrum Analyzers FSH3, FSH6, FSH18

Contents

FSH driver history		
Revision	Date	Note
1.8	01/2007	Update for Firmware 11.20 Support for FSH3/FSH6 and FSH18 - Added functions: rsfsh_configureDirectionTransducer rsfsh_setDisplay rsfsh_getDisplay rsfsh_setMarkerImpedanceReference rsfsh_getMarkerImpedanceReference rsfsh_setMarkerMeasurementMode rsfsh_getMarkerMeasurementMode rsfsh_setXTransducer rsfsh_getXTransducer rsfsh_setYTransducer rsfsh_getYTransducer rsfsh_setZTransducer rsfsh_getZTransducer rsfsh_readComplexCorrectedTraceData rsfsh_readComplexCorrectedTraceDataASCII rsfsh_getElectricalCableLength - Modified functions: rsfsh_setLevelRange rsfsh_getLevelRange rsfsh_defineLimitLine rsfsh_setTrackingGeneratorMode rsfsh_getTrackingGeneratorMode rsfsh_readTraceData rsfsh_readTraceDataFromSavedDataSet
1.7	03/2006	Release for FSH firmware version 10.0 Modifications: - Added functions: rsfsh_setTraceToMemory rsfsh_trackingGeneratorScalarTransmissionCalibration rsfsh_trackingGeneratorInitiateCalibration rsfsh_trackingGeneratorNextPhaseCalibration rsfsh_defineLimitLine rsfsh_deleteLimitLine rsfsh_limitLinesList rsfsh_getExternalReferenceStatus rsfsh_setTraceMathMode rsfsh_getTraceMathMode rsfsh_calibrateDistanceToFault rsfsh_set3GPPAntennaDiversion rsfsh_get3GPPAntennaDiversion rsfsh_set3GPPScramblingCode rsfsh_get3GPPScramblingCode rsfsh_get3GPPMeasurement rsfsh_get3GPPSynchronizationResult - Modified functions: rsfsh_setMeasurementMode rsfsh_getMeasurementMode
1.6	08/2005	Modifications: - Added functions:

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Revision	Date	Note
		rsfsh_setAccessory rsfsh_getAccessory - Modified functions: rsfsh_setMeasurementMode rsfsh_getMeasurementMode
1.5	02/2005	- Release for FSH firmware version 8.0 Modifications: - Added carrier / noise subsystem - Modified functions: setSerialBaudRate getSerialBaudRate setLevelUnits getLevelUnits setResolutionBandwidth getResolutionBandwidth setSweepTime setMarkerState getMarkerState setMarkerPosition getMarkerValue setDeltamarkerState getDeltamarkerState setDeltamarkerPosition getDeltamarkerValue setMarkerTo setMarkerMode getMarkerMode setMeasurementMode getMeasurementMode - Added functions: setExternalInputConnector getExternalInputConnector setAutoSpanMode getAutoSpanMode setDynamicRange getDynamicRange getAutoSweepTime setTriggerLevel getTriggerLevel setTraceAverage getTraceAverage readTraceDataFromSavedDataSet readTraceDataFromSavedDataSet (ASCII) setActiveMarker getActiveMarker setActiveDeltaMarker getActiveDeltaMarker setMarkerDemodulationMode getMarkerDemodulationMode setMarkerDemodulationTime setMarkerDemodulationAFOutputVolume getMarkerList getDeltaMarkerList setTrackingGeneratorLevelAttenuation getTrackingGeneratorLevelAttenuation

FSH driver history		
Revision	Date	Note
		getReflection setReflectionUnit getReflectionUnit setPowerSensorStandard getPowerSensorStandard setChannelPowerCustomizedStandard getChannelPowerCustomizedStandard setOccupiedBandwidthCustomizedStandard getOccupiedBandwidthCustomizedStandard setTDMAPowerCustomizedStandard getTDMAPowerCustomizedStandard
1.4	09/2004	Modifications: - Added receiver subsystem - Modified functions: rsfsh_setMeasurementMode rsfsh_getMeasurementMode rsfsh_setTraceDetector rsfsh_getTraceDetector - Added functions: rsfsh_setLowerThresholdLine rsfsh_getLowerThresholdLine rsfsh_setUpperThresholdLine rsfsh_getUpperThresholdLine rsfsh_setThresholdOff
1.3	04/2004	Modifications: - Added support for FSH6 (max frequency range up to 6 GHz) - Problem with precision of values fixed (loss of digits) Formatting functions uses for double values "%Lf" Scanning functions uses for double values "%Le"
1.2	02/2004	Release for FSH3 firmware version 6.0 Modifications: Modified functions: rsfsh_setLevelRange rsfsh_setResolutionBandwidth rsfsh_setFrequencyOffset Added functions: rsfsh_getMeasuredCableLoss rsfsh_setTrackingGeneratorMode rsfsh_getTrackingGeneratorMode
1.1	11/2003	Release for FSH3 firmware version 5.0 Modifications: Added functions: rsfsh_setAutoResolutionBandwidth rsfsh_getAutoResolutionBandwidth rsfsh_setAutoVideBandwidth rsfsh_getAutoVideoBandwidth rsfsh_readComplexTraceData rsfsh_readComplexTraceDataASCII
1.0.1	07/2003	Modifications: For backward compatibility with **previous versions of VISA** library: - Macros VI_IO_IN_BUF_DISCARD, VI_IO_OUT_BUF_DISCARD are replaced with VI_ASRL_IN_BUF_DISCARD, VI_ASRL_OUT_BUF_DISCARD

FSH driver history		
Revision	Date	Note
1.0	06/2003	Created

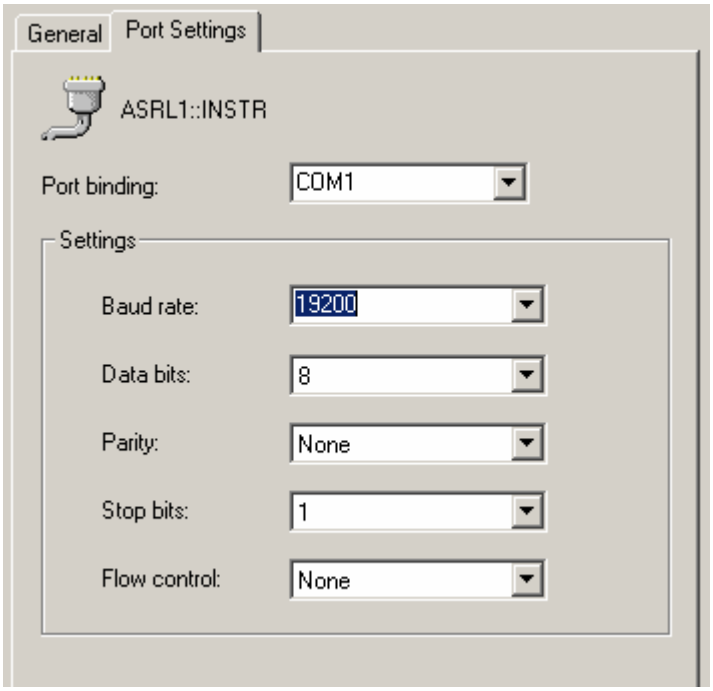
Getting Started

Interface Configuration of the FSH

To set up the connection successfully, the interface parameters of the instrument and the computer must correspond to each other. The interface is set as follows:
Parity: none
Data bits: 8
Stop bits: 1
Start bits: 1
Protocol: None
The above settings are fixed except for the baud rate. The default baud rate setting is 19200 baud.

NI VISA

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

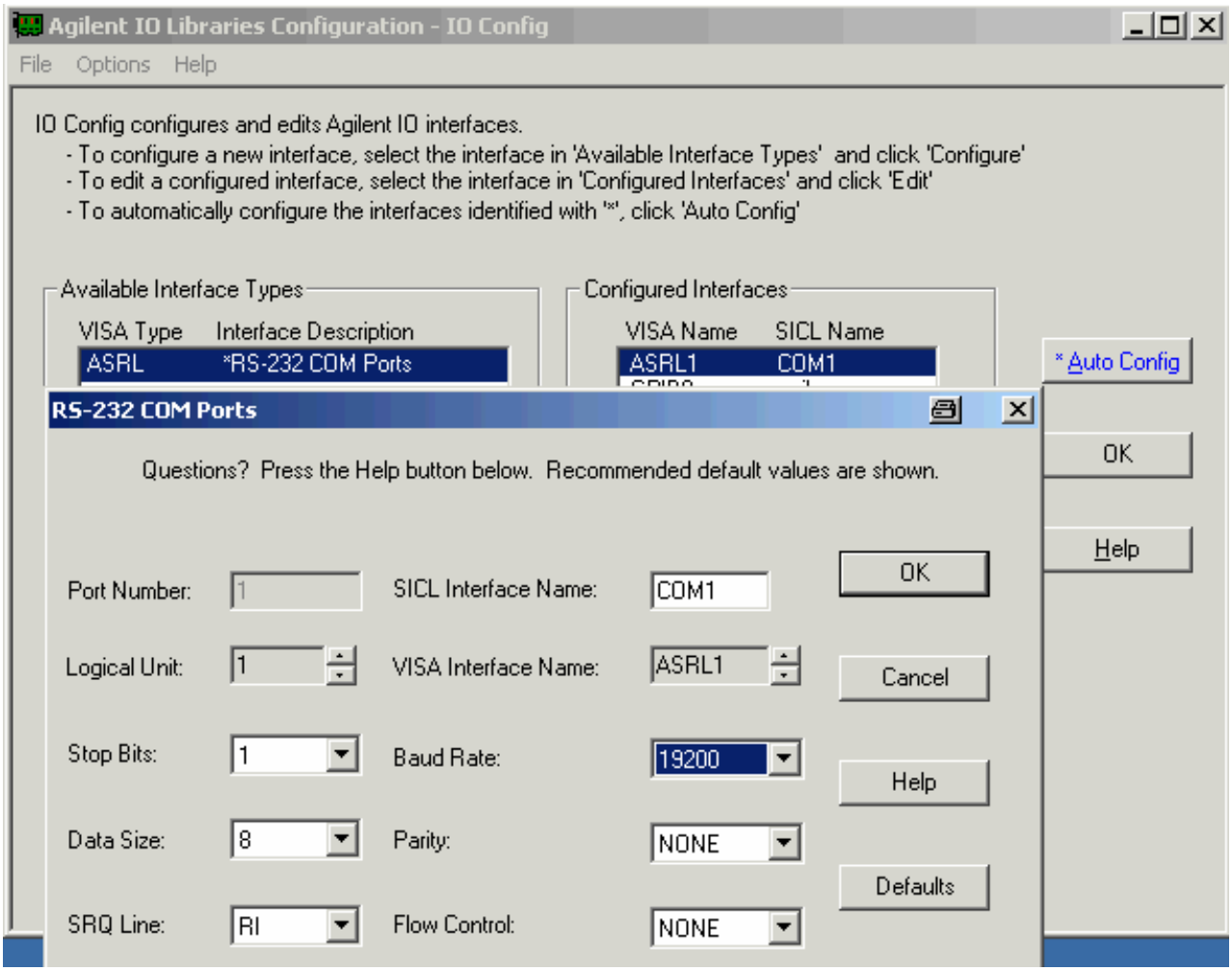


It is also possible to set the values with the viSetAttribute function.

Agilent VISA

The IO Library M01.01 or higher is required.

Use the IO library to set the parameters.



It is also possible to set the values with 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, Visual Basic, Visual C++, Borland C++ etc.

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\rsfsh directory.

Additional Information

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