

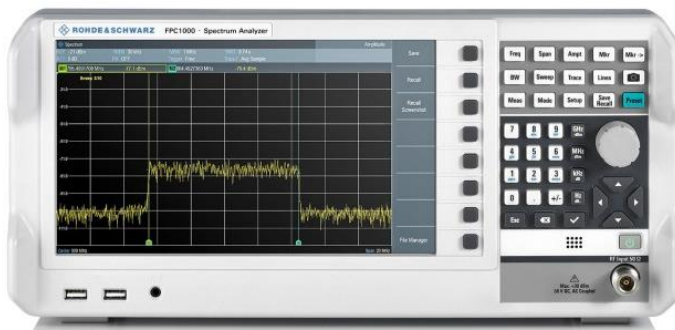
LabWindows/CVI, VXIplug driver history for the R&S® FPH and FPC Spectrum Analyzers Driver Documentation

Products:

| R&S®FPH



| R&S®FPC



Driver history for LabWindows/CVI and VXIplug&play
Instrument Driver for
C/C++, VEE, MATLAB®, etc.

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1 Supported Instruments

In the following table, the supported R&S instruments and firmware versions are listed:

Which instruments are supported?		
Current revision of instrument driver supports these instruments and firmware versions:		
Instrument	Supported Firmware	Remarks
FPH	1.70	
FPC1000	1.40	

2 Getting Started

2.1 LabWindows/CVI driver

The Rohde & Schwarz **rsfph** Instrument driver can be used in LabWindows/CVI 6 and later. In order to be able to compile an application it is required to add following files to your LabWindows/CVI project:

- *rsfph.c* + *rsfph.h*
- *rsfph_attributes.c* + *rsfph_attributes.h*
- *rsfph_utility.c* + *rsfph_utility.h*
- *rscore.c* + *rscore.h*
- *rsfph_callbacks.c*
- *rsfph.fp* + *rsfph.sub*

2.2 VXIplug&play driver in C/C++, LabWindows/CVI

In this case the compiled source code from LabWindows/CVI driver is used. The compiled ANSI-C libraries exist for Windows XP and newer, 32-bit / 64-bit.

Add the following files to your 32-bit target project:

- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\include\rsfph.h
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\lib\msc\rsfph.lib (static)
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\Bin\rsfph_32.dll (dynamic)

In CVI only:

- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsfph\rsfph.fp
- C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsfph\rsfph.sub

Add the following files to your 64-bit target project:

- C:\Program Files\IVI Foundation\VISA\Win64\Include\rsfph.h
- C:\Program Files\IVI Foundation\VISA\Win64\Lib_x64\msc\rsfph64.lib (static)
- C:\Program Files\IVI Foundation\VISA\Win64\Bin\rsfph_64.dll (dynamic)

In CVI only:

- C:\Program Files\IVI Foundation\VISA\Win64\rsfph\rsfph.fp
- C:\Program Files\IVI Foundation\VISA\Win64\rsfph\rsfph.sub

2.3 VXIplug&play driver in MATLAB

MATLAB instrument driver **rsfph.mdd** can be found in:

32-bit driver

C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsfph\rsfph.mdd

64-bit driver

C:\Program Files\IVI Foundation\VISA\Win64\rsfph\rsfph.mdd

For detailed description on how to use the driver in MATLAB please refer to the Application Note [1MA171 - How to use R&S instrument in MATLAB](#)

2.4 Linux and Mac OS X

To be able to use Rohde & Schwarz **rsfph** Instrument driver in Linux or Mac OSX, the functioning VISA is required. Then, the process is the same as using LabWindows/CVI driver.

2.5 Additional Help

The LabWindows/CVI and VXIplug&play instrument driver contains in addition the instrument driver documentation in compressed HTML format (Windows CHM help file **rsfph_vxi.chm**) and stored together with the driver sources or in the following folder:

32-bit driver

C:\Program Files (x86)\IVI Foundation\VISA\WinNT\rsfph\rsfph_vxi.chm

64-bit driver

C:\Program Files\IVI Foundation\VISA\Win64\rsfph\rsfph_vxi.chm

3 LabWindows/CVI and VXIplug&play driver history

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
1.40.0	08/2019	<ul style="list-style-type: none"> * Support for FPH FW 1.70 / FPC FW 1.40 * Updated to RsCore version 3.6.1 * New: <ul style="list-style-type: none"> RSFPH_ATTR_SUBTRACT_TRACES RSFPH_ATTR_CHANNEL_TABLE_SELECT RSFPH_ATTR_ANALOG_MODULATION_AM_MODULATION_DEPTH_RESULT RSFPH_ATTR_ANALOG_MODULATION_FM_MODULATION_RATE_RESULT - rsfph_ConfigureNumberOfSweeps <ul style="list-style-type: none"> RSFPH_ATTR_NUMBER_OF_SWEEPS - rsfph_ConfigureSweepPoints <ul style="list-style-type: none"> RSFPH_ATTR_SWEEP_POINTS - rsfph_ConfigureIQTriggerLevel <ul style="list-style-type: none"> RSFPH_ATTR_IQ_TRIGGER_LEVEL - rsfph_ConfigureTraceMemoryState <ul style="list-style-type: none"> RSFPH_ATTR_TRACE_MEMORY_STATE - rsfph_ConfigureMarkerMode <ul style="list-style-type: none"> RSFPH_ATTR_MARKER_MODE - rsfph_SetSpectrumEmissionMaskPreset <ul style="list-style-type: none"> RSFPH_ATTR_SPECTRUM_EMISSION_MASK_PRESET - rsfph_ConfigureSpectrumEmissionMaskStandard <ul style="list-style-type: none"> RSFPH_ATTR_SPECTRUM_EMISSION_MASK_STANDARD - rsfph_ConfigureSpectrumEmissionMaskSweepMode <ul style="list-style-type: none"> RSFPH_ATTR_SPECTRUM_EMISSION_MASK_SWEEP_MODE - rsfph_ConfigureTOIMeasurementEnabled <ul style="list-style-type: none"> RSFPH_ATTR_TOI_MEASUREMENT_ENABLED - rsfph_ConfigureTOISearch <ul style="list-style-type: none"> RSFPH_ATTR_TOI_SEARCH - rsfph_QueryTOIResult <ul style="list-style-type: none"> RSFPH_ATTR_QUERY_TOI_RESULT - rsfph_ConfigureMarkerTrackingEnabled <ul style="list-style-type: none"> RSFPH_ATTR_MARKER_TRACKING_ENABLED - rsfph_ConfigureDisplayRemoteOperationEnabled <ul style="list-style-type: none"> RSFPH_ATTR_DISPLAY_REMOTE_OPERATION_ENABLED - rsfph_ConfigureZeroSpanEnabled <ul style="list-style-type: none"> RSFPH_ATTR_TRACKING_GENERATOR_ZERO_SPAN_ENABLED

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> - rsfph_ConfigureTrackingGenerator RSFPH_ATTR_TRACKING_GENERATOR_ENABLED RSFPH_ATTR_TRACKING_GENERATOR_AUTO_FREQUENCY_ENABLED RSFPH_ATTR_TRACKING_GENERATOR_FREQUENCY RSFPH_ATTR_TRACKING_GENERATOR_FREQUENCY_OFFSET - rsfph_ConfigureTrackingGeneratorPower RSFPH_ATTR_TRACKING_GENERATOR_POWER - rsfph_ConfigureTrackingGeneratorAttenuation RSFPH_ATTR_TRACKING_GENERATOR_ATTENUATION - rsfph_ConfigurePowerMeterWavelength RSFPH_ATTR_PWM_WAVELENGTH - rsfph_FetchPowerMeterReflectedResult RSFPH_ATTR_PMET_FETCH_REFLECTED - rsfph_ConfigureAnalogModulationReferenceDeviation RSFPH_ATTR_ANALOG_MODULATION_REFERENCE_DEVIATION - rsfph_ConfigureDigitalDemodulationBurstStateEnabled RSFPH_ATTR_DIGITAL_DEMODULATION_BURST_STATE_ENABLED - rsfph_ConfigureDigitalDemodulationFSKFrequencyDeviation RSFPH_ATTR_DIGITAL_DEMODULATION_FSK_FREQUENCY_DEVIATION - rsfph_ReceiverSynchronizeBargraphFrequencyToSpecifiedMarker RSFPH_ATTR_RECEIVER_SYNCHRONIZE_BARGRAPH_FREQUENCY_TO_SPECIFIED_MARKER - rsfph_ConfigureReceiverFrequencyScale RSFPH_ATTR_RECEIVER_FREQUENCY_SCALE - rsfph_SetVectorNetworkAnalyzerMode RSFPH_ATTR_INSTRUMENT_MODE - rsfph_ConfigureVNAMeasurement RSFPH_ATTR_VNA_MEAS_MODE RSFPH_ATTR_VNA_MEAS_FORMAT - rsfph_ConfigureDTFSettingsCouplingEnabled RSFPH_ATTR_DTF_SETTINGS_COUPLING_ENABLED - rsfph_CalibrationStep RSFPH_ATTR_ABORT_CALIBRATION RSFPH_ATTR_CONTINUE_CALIBRATION RSFPH_ATTR_START_FULL_S11_CALIBRATION RSFPH_ATTR_START_EASY_S11_CALIBRATION RSFPH_ATTR_START_S21_CALIBRATION - rsfph_QueryCalibrationMode RSFPH_ATTR_QUERY_CALIBRATION_MODE - rsfph_QueryCalibrationStatus RSFPH_ATTR_QUERY_CALIBRATION_STATUS - rsfph_ConfigureSystemPresetCalibrationDiscardEnabled

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> RSFPH_ATTR_SYSTEM_PRESET_CALIBRATION_DISCARD_ENABLED - rsfph_ConfigureDTFCableModelPreset RSFPH_ATTR_DTF_CABLE_MODEL_PRESET - rsfph_ConfigureDTFMeasurementDistances RSFPH_ATTR_DTF_START_DISTANCE RSFPH_ATTR_DTF_STOP_DISTANCE - rsfph_ConfigureDTFListThreshold RSFPH_ATTR_DTF_LIST_THRESHOLD - rsfph_QueryDTFPeakCount RSFPH_ATTR_DTF_PEAK_COUNT - rsfph_QueryDTFPeakListResults - rsfph_ConfigureDTFDisplayEnabled RSFPH_ATTR_DTF_DISPLAY_ENABLED - rsfph_ConfigureVNACableLossFormat RSFPH_ATTR_VNA_CABLE_LOSS_REFERENCE_LEVEL RSFPH_ATTR_VNA_CABLE_LOSS_REFERENCE_POSITION RSFPH_ATTR_VNA_CABLE_LOSS_Y_AXIS_RANGE - rsfph_ConfigureVNAReturnLossFormat RSFPH_ATTR_VNA_RETURN_LOSS_REFERENCE_LEVEL RSFPH_ATTR_VNA_RETURN_LOSS_REFERENCE_POSITION RSFPH_ATTR_VNA_RETURN_LOSS_Y_AXIS_SCALE RSFPH_ATTR_VNA_RETURN_LOSS_LOG_RANGE - rsfph_ConfigureVNAPhaseFormat RSFPH_ATTR_VNA_PHASE_REFERENCE_LEVEL RSFPH_ATTR_VNA_PHASE_REFERENCE_POSITION RSFPH_ATTR_VNA_PHASE_UNWRAPPING_ENABLED RSFPH_ATTR_VNA_PHASE_Y_AXIS_RANGE - rsfph_ConfigureVNASWRYAxisRange RSFPH_ATTR_VNA_SWR_Y_AXIS_RANGE - rsfph_ConfigureVNASWRYAxisMinMax RSFPH_ATTR_VNA_SWR_Y_AXIS_MINIMUM RSFPH_ATTR_VNA_SWR_Y_AXIS_MAXIMUM - rsfph_ConfigureSmithChartReferenceImpedanceMarker RSFPH_ATTR_SMITH_CHART_REFERENCE_IMPEDANCE_MARKER - rsfph_ConfigureStatusChecking - rsfph_ConfigureRangeChecking - rsfph_ConfigureAutoSystemErrQuery - rsfph_ConfigureMultiThreadLocking <p>* Updated:</p> <ul style="list-style-type: none"> - rsfph_ConfigureReferenceLevelUnits - Range table updated

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> - rsfph_ConfigureVerticalRange - Range table and help updated - rsfph_ConfigureVerticalScaling - Help updated - rsfph_ConfigureTriggerSource - IQ Power and Gated trigger sources added - rsfph_QueryTransducerFactorUnits - Range table updated - rsfph_ConfigureTrace - Freeze, Infinite, and Blank trace modes added - rsfph_ConfigureSubtractTraces - Updated to use RSFPH_ATTR_SUBTRACT_TRACES - rsfph_ConfigureACLRLPower - Range table and help updated - rsfph_ConfigureACLRLReferenceChannel - Range table and help updated - rsfph_ConfigureACLRLSpacing - Help updated - rsfph_ConfigureACLRLBandwidth - Help updated - rsfph_QueryACLRLTotalTXChannelPower - Help updated - rsfph_ConfigureACLRLLimitCheckState - Help updated - rsfph_ConfigureACLRLAdjacentChannelLimitCheck - Help updated - rsfph_ConfigureACLRLAlternateChannelLimitCheck - Help updated - rsfph_QueryACLRLAdjacentChannelLimitCheckResult - Help updated - rsfph_QueryACLRLAlternateChannelLimitCheckResult - Help updated - rsfph_ConfigureHarmonicDistortionMeasurement - Help updated - rsfph_AdjustHarmonicDistortionSettings - Help updated - rsfph_QueryHarmonicDistortion - Help updated - rsfph_QueryHarmonicDistortionPositionList - Help and default values updated - rsfph_ConfigureOccupiedBandwidth - Help updated - rsfph_ConfigureTDMABurstLength - Help and default value updated - rsfph_ConfigureLimitLine - Help updated - rsfph_ConfigureLowerLimitLine - Help updated - rsfph_ConfigureLowerLimitThreshold - Help updated - rsfph_ConfigureUpperLimitLine - Help updated - rsfph_ConfigureUpperLimitThreshold - Help updated - rsfph_DeleteLimitLine - Help updated - rsfph_QueryLimitLineComment - Help updated - rsfph_QueryLimitLineXUnits - Help updated - rsfph_QueryLimitLineYUnits - Help updated - rsfph_ConfigureDisplay - Help updated - rsfph_DisplayColorDefault - Help updated - rsfph_ConfigureDisplayLengthUnit - Help updated - rsfph_QueryDetectedAccessory - Z44 and ZN_Z103 added to accessories - rsfph_ConfigureIPAddress - Now works - rsfph_DataSetFileOperations - Load dataset from PC operation added - rsfph_GetLimitCheckResult - Help updated - rsfph_ZeroPowerMeter - Help updated - rsfph_ConfigurePowerMeterReferenceLevel - Help updated - rsfph_ConfigurePowerMeterUnits - Range table updated

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> - rsfph_ConfigureAnalogModulationResultDisplay - Help updated - rsfph_QueryAnalogModulationResults - AM Depth and FM Rate added - rsfph_ConfigureDigitalDemodulationResultDisplay - Help updated - rsfph_QueryDigitalDemodulationResults - Help updated - rsfph_ReceiverResetMaxholdInformation - Help updated - RSFPH_ATTR_FREQUENCY_OFFSET - Range table updated - RSFPH_ATTR_AMPLITUDE_UNITS - Range table updated - RSFPH_ATTR_NUMBER_OF_SWEEPS - Range table updated - RSFPH_ATTR_SWEEP_POINTS - No longer read only, range table added, enabled for FPH - RSFPH_ATTR_TRIGGER_SOURCE - IQ Power and Gated trigger sources added - RSFPH_ATTR_TRACE_TYPE - Freeze, Infinite, and Blank trace modes added - RSFPH_ATTR_MEAS_POW_STANDARD - Now write only - RSFPH_ATTR_ACLR_RELATIVE_LIMIT_CHECK - Range table added - RSFPH_ATTR_ACLR_ABSOLUTE_LIMIT_CHECK - Range table added - RSFPH_ATTR_ACLR_RESULT_UNIT - Range table updated - RSFPH_ATTR_ACLR_REFERENCE_CHANNEL_AUTOMATIC_SELECTION - Manual selection added - RSFPH_ATTR_ACLR_TRANSMISSION_CHANNEL_AS_REFERENCE_CHANNEL - Range table added - RSFPH_ATTR_ACLR_ALTERNATE_RELATIVE_LIMIT_CHECK - Range table added - RSFPH_ATTR_ACLR_ALTERNATE_ABSOLUTE_LIMIT_CHECK - Range table added - RSFPH_ATTR_CHANNEL_POWER_UNIT - Range table updated - RSFPH_ATTR_TFAC_UNIT - Range table updated - RSFPH_ATTR_SYST_ACCESSORY - Z44 and ZN_Z103 added to accessories - RSFPH_ATTR_INSTRUMENT_MODE - Vector network analyzer added (for FPC) - RSFPH_ATTR_DISP_REF_POSITION - Range table updated - RSFPH_ATTR_PWM_UNIT - Range table updated - RSFPH_ATTR_DIGITAL_DEMODULATION_MODULATION_DEPTH_RESULT - Corrected name (was MODULAITON) <p>* Removed:</p> <ul style="list-style-type: none"> - rsfph_ConfigureStatusRegisterFormat RSFPH_ATTR_STATUS_REGISTER_FORMAT
1.30.0	09/2017	<ul style="list-style-type: none"> * Added supported instrument FPC1000 * Update for FPH Firmware 1.30 * New functions: - rsfph_ConfigurePowerMeterFowardPowerDisplay RSFPH_ATTR_PWM_FORWARD_POWER_DISPLAY - rsfph_SelectPowerMeasurement RSFPH_ATTR_MEAS_POW_SELECT RSFPH_ATTR_MEAS_POW_OFF - rsfph_ConfigurePowerStandard RSFPH_ATTR_MEAS_POW_STANDARD

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> - rsfph_QueryPowerMeasurementsResults - rsfph_QueryPowerStandardCheck RSFPH_ATTR_MEAS_POW_STANDARD_CHECK - rsfph_AdjustPowerReferenceLevel RSFPH_ATTR_MEAS_POW_ADJUST_REFERENCE_LEVEL - rsfph_SetAnalogModulationMode RSFPH_ATTR_INSTRUMENT_MODE - rsfph_ConfigureAnalogModulationLimitLine RSFPH_ATTR_ANALOG_MODULATION_LIMIT_LINE_SELECT - rsfph_DeleteAnalogModulationLimitLine RSFPH_ATTR_ANALOG_MODULATION_LIMIT_LINE_DELETE - rsfph_QueryAnalogModulationLimitCheckResult RSFPH_ATTR_ANALOG_MODULATION_LIMIT_LINE_CHECK_RESULT - rsfph_ConfigureAnalogModulationResultDisplay RSFPH_ATTR_ANALOG_MODULATION_RESULT_DISPLAY - rsfph_QueryAnalogModulationResults RSFPH_ATTR_ANALOG_MODULATION_FM_OFFSET RSFPH_ATTR_ANALOG_MODULATION_CARRIER_POWER_RESULT RSFPH_ATTR_ANALOG_MODULATION_SINAD_RESULT RSFPH_ATTR_ANALOG_MODULATION_THD_RESULT RSFPH_ATTR_ANALOG_MODULATION_AUDIO_FREQUENCY_RESULT RSFPH_ATTR_ANALOG_MODULATION_FREQUENCY_ERROR_RESULT RSFPH_ATTR_ANALOG_MODULATION_AM_MODULATION_INDEX_RESULT RSFPH_ATTR_ANALOG_MODULATION_AM_MAX_RESULT RSFPH_ATTR_ANALOG_MODULATION_AM_MIN_RESULT RSFPH_ATTR_ANALOG_MODULATION_AM_AVERAGE_RESULT RSFPH_ATTR_ANALOG_MODULATION_AM_RMS_RESULT RSFPH_ATTR_ANALOG_MODULATION_FM_MAX_RESULT RSFPH_ATTR_ANALOG_MODULATION_FM_MIN_RESULT RSFPH_ATTR_ANALOG_MODULATION_FM_AVERAGE_RESULT RSFPH_ATTR_ANALOG_MODULATION_FM_RMS_RESULT - rsfph_ConfigureChannelPower RSFPH_ATTR_CHANNEL_POWER_BANDWIDTH RSFPH_ATTR_CHANNEL_POWER_DISPLAY_MODE RSFPH_ATTR_CHANNEL_POWER_UNIT RSFPH_ATTR_CHANNEL_POWER_PER_HERTZ - rsfph_ReceiverSynchronizeBargraphFrequencyToMarker RSFPH_ATTR_RECEIVER_SYNCHRONIZE_BARGRAPH_FREQUENCY_TO_MARKER - rsfph_ConfigureAMModulationDepth RSFPH_ATTR_MODULATION_DEPTH_STATE - rsfph_QueryAMModulationDepthResult

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
		RSFPH_ATTR_MODULATION_DEPTH_RESULT - rsfph_ConfigureOccupiedBandwidth RSFPH_ATTR_OCCUPIED_BANDWIDTH_CHANNEL_BANDWIDTH RSFPH_ATTR_OCCUPIED_BANDWIDTH_POWER_PERCENTAGE - rsfph_ReceiverResetMaxholdInformation RSFPH_ATTR_RECEIVER_RESET_MAXHOLD_INFORMATION - rsfph_ConfigureReceiverTraceStyle RSFPH_ATTR_RECEIVER_TRACE_STYLE - rsfph_ConfigureDeviationPerDivision RSFPH_ATTR_DISPLAY_DEVIATION_PER_DIVISION - rsfph_ConfigureIsotropicAntenna RSFPH_ATTR_ISOTROPIC_ANTENNA_STATE RSFPH_ATTR_ISOTROPIC_ANTENNA_DIRECTION - rsfph_ConfigureTransducerFactorIsotropicAntenna RSFPH_ATTR_TRANSDUCER_FACTOR_ISOTROPIC_ANTENNA - rsfph_ConfigureAnalogModulationBandwidth RSFPH_ATTR_ANALOG_MODULATION_BANDWIDTH - rsfph_QueryAnalogModulationMeasurementTime RSFPH_ATTR_ANALOG_MODULATION_MEASUREMENT_TIME - rsfph_ConfigureReceiverCISPRBandwidth RSFPH_ATTR_RECEIVER_CISPR_BANDWIDTH_AUTO RSFPH_ATTR_RECEIVER_CISPR_BANDWIDTH - rsfph_ConfigureChannelTable RSFPH_ATTR_CHANNEL_NUMBER RSFPH_ATTR_CHANNEL_TABLE_DOWNLINK RSFPH_ATTR_CHANNEL_TABLE_UPLINK RSFPH_ATTR_CHANNEL_LINK_DIRECTION - rsfph_ConfigureAnalogModulationDeemphasis RSFPH_ATTR_ANALOG_MODULATION_DEEMPHASIS_ENABLED RSFPH_ATTR_ANALOG_MODULATION_DEEMPHASIS_TIME_CONSTANT - rsfph_ConfigureReceiverScanRange RSFPH_ATTR_RECEIVER_SCAN_RANGE_START RSFPH_ATTR_RECEIVER_SCAN_RANGE_STOP RSFPH_ATTR_RECEIVER_SCAN_RANGE_STEP_SIZE - rsfph_ConfigureBeeperOnPowerOverload RSFPH_ATTR_BEEPER_ON_POWER_OVERLOAD - rsfph_ConfigureSystemCaptureItems RSFPH_ATTR_SYST_CAPTURE_DATASET_STATE RSFPH_ATTR_SYST_CAPTURE_SCREEN_STATE RSFPH_ATTR_SYST_CAPTURE_GPX_INFORMATION_STATE - rsfph_ConfigureGPSReceiver

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
		RSFPH_ATTR_GPS_RECEIVER_STATE - rsfph_QueryGPSReceiverData RSFPH_ATTR_GPS_RECEIVER_CONNECTED RSFPH_ATTR_GPS_RECEIVER_CORRECTION_FREQUENCY RSFPH_ATTR_GPS_RECEIVER_SATELLITES RSFPH_ATTR_GPS_RECEIVER_QUALITY - rsfph_QueryGPSReceiverCoordinates RSFPH_ATTR_GPS_RECEIVER_LATITUDE RSFPH_ATTR_GPS_RECEIVER_LONGITUDE RSFPH_ATTR_GPS_RECEIVER_ALTITUDE - rsfph_QueryGPSReceiverValidPosition RSFPH_ATTR_GPS_RECEIVER_VALID_POSITION - rsfph_SetReceiverMode RSFPH_ATTR_INSTRUMENT_MODE - rsfph_SetDigitalDemodulationMode RSFPH_ATTR_INSTRUMENT_MODE - rsfph_SelectDigitalDemodulationMeasurement RSFPH_ATTR_DIGITAL_DEMODULATION_SELECT_MEASUREMENT - rsfph_SelectDigitalDemodulationMeasurement RSFPH_ATTR_DIGITAL_DEMODULATION_SELECT_MEASUREMENT - rsfph_ConfigureDigitalDemodulation RSFPH_ATTR_DIGITAL_DEMODULATION_SYMBOL_RATE RSFPH_ATTR_DIGITAL_DEMODULATION_NUMBER_OF_SYMBOLS - rsfph_ConfigureDigitalDemodulationFilter RSFPH_ATTR_DIGITAL_DEMODULATION_MEASUREMENT_FILTER RSFPH_ATTR_DIGITAL_DEMODULATION_FILTER_TYPE RSFPH_ATTR_DIGITAL_DEMODULATION_FILTER_ROLL_OFF_FACTOR - rsfph_ConfigureDigitalDemodulationResultDisplay RSFPH_ATTR_DIGITAL_DEMODULATION_RESULT_DISPLAY - rsfph_QueryDigitalDemodulationResults RSFPH_ATTR_DIGITAL_DEMODULATION_FSK_OFFSET RSFPH_ATTR_DIGITAL_DEMODULATION_CARRIER_POWER_RESULT RSFPH_ATTR_DIGITAL_DEMODULATION_CARRIER_FREQUENCY_DRIFT_RESULT RSFPH_ATTR_DIGITAL_DEMODULATION_CARRIER_FREQUENCY_ERROR_RESULT RSFPH_ATTR_DIGITAL_DEMODULATION_MODULATION_DEPTH_RESULT RSFPH_ATTR_DIGITAL_DEMODULATION_FREQUENCY_DEVIATION_RESULT RSFPH_ATTR_DIGITAL_DEMODULATION_MAGNITUDE_ERROR_RESULT RSFPH_ATTR_DIGITAL_DEMODULATION_MODULATION_INDEX_RESULT RSFPH_ATTR_DIGITAL_DEMODULATION_MODULATION_ERROR_RESULT RSFPH_ATTR_DIGITAL_DEMODULATION_CARRIER_SIGNAL_POWER_RESULT - rsfph_QueryDeviceNumbers

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
		RSFPH_ATTR_SYSTEM_DEVICE_MATERIAL_NUMBER RSFPH_ATTR_SYSTEM_DEVICE_SERIAL_NUMBER - rsfph_HardcopyPrintScreenToFile - rsfph_ConfigureStatusRegisterFormat RSFPH_ATTR_STATUS_REGISTER_FORMAT - rsfph_ConfigureAnalogModulationLowpassFilter RSFPH_ATTR_ANALOG_MODULATION_AUDIO_LOWPASS_FILTER - rsfph_QueryMemoryInfo RSFPH_ATTR_SYSTEM_TOTAL_RAM RSFPH_ATTR_SYSTEM_TOTAL_STORAGE RSFPH_ATTR_SYSTEM_USED_RAM RSFPH_ATTR_SYSTEM_USED_STORAGE RSFPH_ATTR_SYSTEM_FREE_RAM RSFPH_ATTR_SYSTEM_FREE_STORAGE - rsfph_ConfigureDisplayLengthUnit RSFPH_ATTR_DISPLAY_UNIT_LENGTH - rsfph_ConfigureACLRPower RSFPH_ATTR_ACLR_CHANNEL_MODE RSFPH_ATTR_ACLR_NUMBER_OF_ADJACENT_CHANNELS RSFPH_ATTR_ACLR_TRANSMISSION_CHANNEL_COUNT RSFPH_ATTR_ACLR_RESULT_UNIT - rsfph_ConfigureACLRReferenceChannel RSFPH_ATTR_ACLR_REFERENCE_CHANNEL_AUTOMATIC_SELECTION RSFPH_ATTR_ACLR_TRANSMISSION_CHANNEL_AS_REFERENCE_CHANNEL - rsfph_ConfigureACLRSpacing RSFPH_ATTR_ACLR_TRANSMISSION_CHANNEL_SPACING RSFPH_ATTR_ACLR_ADJACENT_CHANNEL_SPACING RSFPH_ATTR_ACLR_ALTERNATE_CHANNEL_SPACING - rsfph_ConfigureACLRBandwidth RSFPH_ATTR_ACLR_CHANNEL_BANDWIDTH RSFPH_ATTR_ACLR_ADJACENT_CHANNEL_BANDWIDTH RSFPH_ATTR_ACLR_ALTERNATE_CHANNEL_BANDWIDTH - rsfph_AdjustACLRReferenceLevel RSFPH_ATTR_ACLR_ADJUST_REFERENCE_LEVEL - rsfph_QueryACLRTotalTXChannelPower RSFPH_ATTR_ACLR_TOTAL_TX_CHANNEL_POWER - rsfph_ConfigureACLRLimitCheckState RSFPH_ATTR_ACLR_LIMIT_CHECK_STATE - rsfph_ConfigureACLRAdjacentChannelLimitCheck RSFPH_ATTR_ACLR_RELATIVE_LIMIT_CHECK_STATE RSFPH_ATTR_ACLR_RELATIVE_LIMIT_CHECK

rsfph Instrument Driver		
Driver history		
Revision	Date	Note
		RSFPH_ATTR_ACLR_ABSOLUTE_LIMIT_CHECK_STATE RSFPH_ATTR_ACLR_ABSOLUTE_LIMIT_CHECK - rsfph_ConfigureACLRAAlternateChannelLimitCheck RSFPH_ATTR_ACLR_ALTERNATE_RELATIVE_LIMIT_CHECK_STATE RSFPH_ATTR_ACLR_ALTERNATE_RELATIVE_LIMIT_CHECK RSFPH_ATTR_ACLR_ALTERNATE_ABSOLUTE_LIMIT_CHECK_STATE RSFPH_ATTR_ACLR_ALTERNATE_ABSOLUTE_LIMIT_CHECK - rsfph_QueryACLRAAdjacentChannelLimitCheckResult - rsfph_QueryACLRAAlternateChannelLimitCheckResult - rsfph_ConfigureTDMABurstLength RSFPH_ATTR_TDMA_BURST_LENGTH - rsfph_ConfigureHarmonicDistortionMeasurement RSFPH_ATTR_HARMONIC_DISTORTION_STATE RSFPH_ATTR_HARMONIC_DISTORTION_NO_OF_HARMONICS - rsfph_AdjustHarmonicDistortionSettings RSFPH_ATTR_HARMONIC_DISTORTION_ADJUST_SETTINGS - rsfph_QueryHarmonicDistortion - rsfph_QueryHarmonicDistortionPositionList - rsfph_SetStatusRegisterBit - rsfph_GetStatusRegisterBit * Updated functions: - rsfph_SetStatusRegister - added Sync - rsfph_GetStatusRegister - added Sync - rsfph_DataSetFileOperations - added 'Save dataset to PC', 'Save dataset and screenshot to PC'
1.10.0	12/2016	* Initial Release for the FPH firmware 1.10

About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established more than 80 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

Environmental commitment

- Energy-efficient products
- Continuous improvement in environmental sustainability
- ISO 14001-certified environmental management system



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