

R&S® NRPxS & NRPxSN 3 Path Diode Power Sensors Release Notes

Firmware Version 02.30.21062301

PAD-T-M: 3574.3288.02/04.00/CI/1/EN

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1 Information on the current version and history

1.1 Version 02.30.21062301

Released: July, 2021

New functionality

Functions

Added SCPI queries for input reflection coefficient:

SENSe:IGAMma:MAGNitude?,

SENSe:IGAMma:PHASe?,

SENSe:IGAMma:EUNCertainty?

Added new commands for trigger synchronization among multiple sensors: TRIGger:SENDER/RECeiver

Modified functionality

Functions

Web browser based user interface optimized for small devices

Improvements

Improvements

Fixed dead lock in overload state which caused timeout

Fixed missing parameter updates in web browser based user interface

Known issues

Known Issues

None

1.2 Version 02.20.20100902

Released: October, 2020

New functionality

Functions

None

Modified functionality

Functions

Triggered measurements in ContAv mode with positive trigger delay values.

Improvements

Improvements

None

Known issues

Known Issues

None

1.3 Version 02.10.20051901

Released: June, 2020

New functionality

Functions

None

Modified functionality

Functions

NRX compatible buffered mode

Improvements

Improvements

None

Known issues

Known Issues

None

1.4 Version 02.00.20021703

Released: February, 2020

New functionality

Functions

Continuous average measurements in buffered mode can process up to 100000 measurements per second while using internal or external trigger endlessly

NRX base unit can control LAN capable sensors via network protocol.

Modified functionality

Functions

Burst measurement with a burst repetition rate between app. 5s until 9s now triggers for each burst

Auxiliary values (MIN and MAX) made available for auto triggered trace measurements (TRIGger:ATRIGger:STATe ON)

Improvements

Improvements

Selecting external reference clock reference without clock applied does no longer stop sensor accessibility

Known issues

Known Issues

None

1.5 Version 18.06.14.10

Released: June, 2019

New functionality

Functions

None

Modified functionality

Functions

None

Improvements

Improvements

NRP Sensor not accessible after power cycle

Known issues

Known Issues

None

1.6 Version 18.06.14.01

Released: July, 2018

New functionality

Functions

Enhanced sensor sanitizing feature

Modified functionality

Functions

None

Improvements

Improvements

None

Known issues

Known Issues

None

1.7 Version 17.11.27.03

Released: December, 2017

New functionality

Functions

None

Modified functionality

Functions

*RCL on a not previously stored parameter set returns no error code

Improvements

Improvements

Continuously opening and closing sensor communication via LAN at a certain point leads to inaccessibility of the sensor

Known issues

Known Issues

None

1.8 Version 17.06.27.06

Released: July, 2017

New functionality

Functions

SYSTem:PRESet implemented: Resets all parameters but not INIT:CONT, SENSE:AVERage:TCONtrol and SENSE:TRACe:AVERage:TCONtrol

Trace output provides up to 100000 points instead of 8192
(Not available in NRP legacy USB mode and via NRP2)

Support of sanitizing according to "Manual for the Certification and Accreditation of Classified Systems under the NISPOm"

Remote control is provided for LED blinking sequence in addition to LED color

Modified functionality

Functions

None

Improvements

Improvements

Averaging with single triggered measurements now works reliable also with moving filter setting (SENSe:AVERage:TCONtrol)

Sensor instability fixed when using the integrated web interface in parallel to a Visa viLock

Known issues

Known Issues

None

1.9 Version 16.05.13.02

Released: May, 2016

New functionality

Functions

None

Modified functionality

Functions

Trigger delay support for continuous average mode

Improvements

Improvements

Solved false reporting of errors that have been already cleared

Critical measurement speed issue solved

Known issues

Known Issues

None

1.10 Version 16.03.22.01

Released: March, 2016

New functionality

Functions

LAN Sensor web interface: Improved compatibility with Internet Explorer

Modified functionality

Functions

Auto trigger indication is now reset safely when resetting or aborting measurements

The maximum number of slots was increased from 32 to 128 in timeslot mode

Improvements

Improvements

Fixed result error when using moving average and fast mode together

Detection of sensor plug location works correctly on SMW and SMBV signal generators

Auto trigger indication is now reset safely when resetting or aborting measurements

Known issues

Known Issues

Trigger delay is not supported for continuous average mode

1.11 Version 15.12.10.01

Released: December, 2015

New functionality

Functions

Static error queue replaces static error momentary output
new commands SYSTem:SERRor:LIST? and SYSTem:SERRor:LIST:ALL?

Modified functionality

Functions

Queries for enumeration parameters return the short form

Improvements

Improvements

Download of new sensor calibration while measuring fixed

False overload notification when plugging a sensor to NRP2 fixed

Change of measuring mode immediately after fetch? does no longer lead to an unexpected behavior

Known issues

Known Issues

None

1.12 Version 15.10.27.01

Released: October, 2015

New functionality

Functions

Auto trigger delay time configurable with TRIGger:ATRigger:DElay command: The auto trigger function starts a single measurement in triggered modes if no regular trigger occurred since. This former fixed 300ms time is now configurable in a range from 0.1s to 5s

Modified functionality

Functions

Built in Web GUI: Improved compatibility with different browsers

Improvements

Improvements

Built in Web GUI: Rounding errors at parameter borders lead to rejections of setting to limits

SCPI status system: Corrections of behavior in some special trigger cases

Known issues

Known Issues

None

1.13 Version 15.07.02.01

Released: July, 2015

New functionality

Functions

Built in Web GUI: Firmware update support

Note: Updating for this version still requires using the firmware download from the Toolkit.

Just the next firmware can be downloaded via Web GUI.

Modified functionality

Functions

None

Improvements

Improvements

Improved compatibility with NRP2

Improved interworking with sensors of previous generation while connected to same host

Fixed an incorrect state change sequence in buffered mode when using legacy USB interface

Built in Web GUI: Radio buttons now visible in Opera Browser 27.0

Parameter reset while changing interfaces done correctly

Built in Web GUI: Rounding errors at parameter borders lead to rejections of setting to limits

Known issues

Known Issues

None

1.14 Version 15.03.13.03

Released: March, 2015

New functionality

Functions

R&S NRPxS(N) are now supported by R&S SMW at front panel and back side USB connectors

Modified functionality

Functions

Built in Web GUI: Sensor name can be set independently from network hostname to identify the sensor

Built in Web GUI: Support of external trigger on EXT1 and EXT2

Text outputs: Line termination is LF in SCPI modes, CR/LF in legacy USB mode

Improvements

Improvements

Buffered mode: Enhanced stability in some complex use cases

Burst Mode: Duty cycle does no longer affect measured values

Built in Web GUI: Corrected issue that some activities required two mouse clicks

S-parameter correction: correct handling with built in web client and after downloading new sets

Auto Averaging: Corrected behavior of auto averaging when using trigger modes EXT1/2, BUS or INTERNAL

Correct XML style formatting of the device footprint (SERVICE:DFPRINT? command)

Known issues

Known Issues

None

2 Modifications to the documentation

The current documentation is up-to-date.

3 Firmware update

3.1 Update information

Please refer to the document " R&S®NRPxxS(N) Power Sensors User Manual" (https://www.rohde-schwarz.com/manual/nrp_s_sn).

4 Customer support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

Contact information

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