

R&S® NRPxA & NRPxAN Average Power Sensors Release Notes

Firmware Version 02.50.23032503

PAD-TM: 3574.3288.02/04.00/CI/1/EN

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1 Information on the current version and history

1.1 Version 02.50.23032503

Released: April, 2023

New functionality

Functions

The following commands have been added for compatibility reasons to configure the unit of the related parameter:

SYSTem:MINPower:UNIT

TRIGger:LEVel:UNIT

Modified functionality

Functions

None

Improvements

When S-parameter correction is active, the queries SYSTem:MINPower? and SYSTem:INFO? will return the correct value for the minimum power.

The query FETCh:ARRay[:POWer][:AVG]? returns the correct results if the sensor is in buffered-mode.

If SENSE:ROSCillator:SOURce is set to EXTernal or HOST and the reference clock is no longer supplied, the sensor will no longer crash.

Device states that are stored with *SAV and loadable with *RCL are usable without restriction after a FW update.

Known issues

Known Issues

None

1.2 Version 02.40.22081101

Released: September, 2022

New functionality

Functions

None

Modified functionality

Functions

None

Improvements

Improvements

Fixed inaccessibility of the sensor after short sequences of INIT:CONT ON and INIT:CONT OFF and small aperture times.

Fixed "-213,'INIT ignored'" SCPI error after INIT:IMM when auto averaging is active.

Known issues

Known Issues

None

1.3 Version 02.30.21062303

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

Web browser based user interface which caused immediate sensor error state on first initialization

Known issues

Known Issues

None

1.4 Version 02.20.20100904

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

1.5 Version 02.10.20051902

Released: June, 2020

New functionality

Functions

None

Modified functionality

Functions

NRX compatible buffered mode

Improvements

Improvements

None

Known issues

Known Issues

None

1.6 Version 02.00.20021701

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

Improvements

Improvements

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

Known issues

Known Issues

None

1.7 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

1.8 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

1.9 Version 17.06.28.01

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

1.10 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

1.11 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

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

Known issues

Known Issues

Trigger delay is not supported for continuous average mode

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®NRPxxA(N) Power Sensors User Manual" (<https://www.rohde-schwarz.com/manual/nrp-a-an>).

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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