

R&S® NRPM3 & NRPM3N OTA Power Sensor Release Notes

Firmware Version 02.10.23032502

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 02.10.23032502

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

Improvements

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 02.00.21042901

New functionality

Functions

Web browser user interface for network sensor type NRPM3N

List mode

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

Modified functionality

Functions

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

Triggered measurements in ContAv mode with positive trigger delay values

Overload, Overrange detection missing on channel 2 and 3

Trigger on wrong antenna channel fixed

Inactive antenna channels now return correct NaN result

Spikes in trace mode fixed

Fix for autotrigger condition not indicated

Improvements

Improvements

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

Enhanced sensor-sanitizing feature

Known issues

Known Issues

None

1.3 Version 18.05.08.05

New functionality

Functions

None

Modified functionality

Functions

None

Improvements

Improvements

Power density value calculation timing issue, calculation uses previous instead of current frequency

Known issues

Known Issues

None

1.4 Version 18.05.08.03

New functionality

Functions

Support of Antenna Type NRPM A90 and NRPM A90 D for a larger frequency range

Modified functionality

Functions

None

Improvements

Improvements

CALCulate:FEED RANDom outputs measurement data supported now

Known issues

Known Issues

None

1.5 Version 17.06.28.04

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 MOVing)

Known issues

Known Issues

None

1.6 Version 16.10.26.01

New functionality

Functions

Support for 32kByte antenna calibration data storage size

User selectable interpolation filter for small apertures and large trace pixel number:
SENSe:TRACe:UPSampling [SINC|HOLD]

Modified functionality

Functions

Enhanced trace mode trigger edge resolution

Improvements

Improvements

None

Known issues

Known Issues

None

1.7 Version 16.08.08.02

New functionality

Functions

None

Modified functionality

Functions

Minimum power query returns true value, not zero

Improvements

Improvements

Improved functionality for alternative power units:

- Power Density
- Electric Field Density
- Magnetic Field density
- Detector Power

in addition to the current Equivalent Isotopically Received Power.

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®NRPM OTA Power Measurement Solution User Manual" (<https://www.rohde-schwarz.com/manual/nrpm3>).

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

Contact our customer support center at www.rohde-schwarz.com/support or follow this QR code:



Bild 4-1: QR code to the Rohde & Schwarz support page