R&S® NRPxT & NRPxTN
Thermal Power Sensors
Release Notes

Firmware Version 02.50.23042601

ROHDE&SCHWARZ

Make ideas real

Contents

1 Information on the current version and history

1.1 Version 02.50.23042601

Released: June, 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
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 02.30.21062301

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

1.4 Version 02.20.20100903

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 02.10.20052701

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

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

Modified functionality

Functions

None

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 17.11.27.01

Released: January, 2018

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 16.08.19.01

Released: August, 2016

New functionality

Functions
None

Modified functionality

Functions
Sensor frequency boundaries disallow negative values

Improvements

Improvements
LAN Sensor web client, link issue to product page solved
50 kHz measurement issue solved

Known issues

Known Issues
None

1.11　Version 16.04.29.02

Released: May, 2016

New functionality

Functions
SCPI output data format according SCPI-99

Modified functionality

Functions
LAN Sensor web interface: Improved compatibility with Internet Explorer

Improvements

Improvements
LAN Sensor web interface, error indication when loading web client in to web browser
Detection of sensor plug location works correctly on SMW and SMBV signal generators
False overload notification when plugging a sensor to NRP2
Sensor Sanitizing feature inconsistent behavior
Sporadic fails on continue measurement after abort 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®NRPxxT(N) Power Sensors User Manual"
(https://www.rohde-schwarz.com/manual/nrp-t-tn).

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.

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