



Final Product Change Notification

202106017F01 : NHS31XX Temperature Range Accuracy Improvement

Note: This notice is NXP Company Proprietary.

Issue Date: Oct 06, 2021 **Effective date:** Jan 04, 2022

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Management summary

On request of the market NXP investigated the extension of the temperature accuracy of +/- 0.3°C from the temperature range 0 to 40°C to the new temperature range of 0 to 45°C.
For this request NXP analyzed the collected data from 2019 onwards. The analysis showed the in place temperature calibration is sufficient to extend the 0.3°C range to 0 to 45°C

The guaranteed temperature accuracy will be:

- From 0 to 45°C: +/-0.3C
- From -40 to 0°C and from 45 to 85°C: +/- 0.5°C
- This new accuracy applies for all NHS31XX products produced after Jan 1, 2020
- For customers in production with these ICs, nothing changes
- There is no need for requalification and/or recertification
- There is no need from customers to adapt or modify any software.

Change Category

- | | | | | |
|--|---|--|---|---|
| <input type="checkbox"/> Wafer Fab Process | <input type="checkbox"/> Assembly Process | <input type="checkbox"/> Product Marking | <input type="checkbox"/> Test Process | <input type="checkbox"/> Design |
| <input type="checkbox"/> Wafer Fab Materials | <input type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification | <input type="checkbox"/> Test Equipment | <input type="checkbox"/> Errata |
| <input type="checkbox"/> Wafer Fab Location | <input type="checkbox"/> Assembly Location | <input type="checkbox"/> Packing/Shipping/Labeling | <input type="checkbox"/> Test Location | <input type="checkbox"/> Electrical spec./Test coverage |
| <input type="checkbox"/> Firmware | <input checked="" type="checkbox"/> Other: Data sheet update for the NHS31XX temperature range accuracy improvement | | | |

PCN Overview

Description

NXP emphasizes that we did not change the production, the testing and/or calibration (Form, fit or function).
For customers in production with these ICs, nothing changes
There is no need for requalification and/or recertification

NXP will update the documentation of these products to reflect his improved accuracy

Reason

On request of the market

Identification of Affected Products

Product identification does not change

Product Availability

Sample Information

Not Applicable

All products produced after December 31, 2019, meet this new temperature range

Production

Planned first shipment Sep 15, 2021

Anticipated Impact on Form, Fit, Function, Reliability or Quality

No Impact on form, fit, function, reliability or quality
No impact on the form, fit, function, reliability or quality
Only the data sheet is updated with the improved accuracy

Data Sheet Revision

A new datasheet will be issued

Disposition of Old Products

All inventory is from December 31. 2019 or later

Additional information

Self qualification: [view online](#)

Additional documents: [view online](#)

Timing and Logistics

In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by Nov 05, 2021.

Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

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NXP Quality Management Team.

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Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	New Orderable Part#	12NC New	Product Type New	Product Description New	Product Line	Notes
NHS3152/A1Z	935307865515	NHS3152/A1	Healthcare temp. sensor with NFC	H(V)QFN24WF	SOT616-3	RFS	No					BLP5	
NHS3152UK/A1Z	935307926012	NHS3152UK/A1	Healthcare temp. sensor with NFC			RFS	No					BLP5	
NHS3153/A1Z	935307866515	NHS3153/A1	Healthcare temp. sensor with NFC	H(V)QFN24WF	SOT616-3	RFS	No					BLP5	

NHS3153UK/A1Z	935307927012	NHS3153UK/A1	Healthcare temp. sensor with NFC		RFS	No	BLP5
NHS3100/A1Z	935307303515	NHS3100/A1	Healthcare temp. sensor with NFC	H(V)QFN24WF SOT616-3	RFS	No	BLP5
NHS3100UK/A1Z	935307749012	NHS3100UK/A1	Healthcare temp. sensor with NFC		RFS	No	BLP5
NHS3100W8/A1V	935308967005	NHS3100W8/A1	Healthcare temp. sensor with NFC		RFS	No	BLP5