



**NHS3100-ARA**  
**PASSIVE**  
**NFC / HF WET INLAY**  
**TEMPERATURE SENSOR**  
**TAG**  
**Ø 37 x 0.25 mm**  
**ISO14443A 13,56 MHz**

<b>Chip:</b>	NXP NHS3100 (SL2S2602)
<b>Chip Operating Frequency:</b>	13.56MHz
<b>Communication Std.:</b>	ISO/IEC 14443A
<b>Firmware</b>	Secure temperature measurement & NFC storage functions v1.0
<b>Free NFC Memory</b>	360 Bytes
<b>Operating temperature</b>	-40°C to +70°C
<b>Data retention</b>	10 years @22°C
<b>Max. Read Cycling</b>	200 000 measurement
<b>Substrate material</b>	PET
<b>Antenna Material</b>	Aluminum
<b>Liner</b>	Silicone coated paper
<b>Adhesive</b>	UV Acrylic - UPM RC18
<b>Operating environment</b>	-20°C to +75°C ; 20 %-70% RH
<b>Storage (in reel)</b>	1 year 15°C-25°C, 50 %RH Pack not open.
<b>ESD</b>	+/- 2kV peak HBM
<b>Environmental:</b>	RoHS, ISEGA, FDA 21CFR 175.105



Bul. Tsarigradsko Shose, 135D  
 1784 Sofia, Bulgaria

arfidex GmbH | Adlerstraße 2 | D-63322 Rödermark | Germany | Phone: +49 (0) 6074 861930

<https://www.arfidex.de> | [info@arfidex.de](mailto:info@arfidex.de)

© arfidex makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does arfidex assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by arfidex have been subject to limited testing and should not be used in conjunction with mission-critical equipment or applications. Any performance specifications are believed to be reliable but are not verified, and Buyer must conduct and complete all performance and other testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by arfidex. It is the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by arfidex hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. arfidex does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is proprietary to arfidex, and arfidex reserves the right to make any changes to the information in this document or to any products and services at any time without notice.



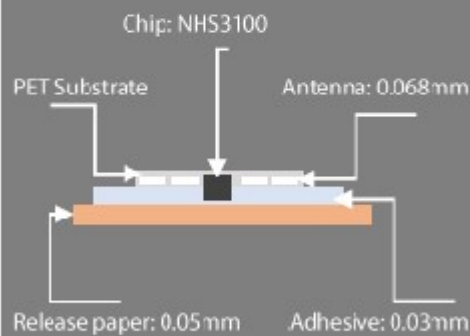
**Antenna design**

- Size: OD35mm
- Frequency: 14.2MHZ
- Q Factor: 7-10

**Wet Inlay**

- Size: OD37mm±0.5mm
- Adhesive material: UPM RC18

**Structure of the Wet Inlay**



**Packaging**

- On roll
- Outer size of the roll: 30cm±5cm
- 2000 pcs/roll

**NHS3100-ARA  
PASSIVE  
NFC / HF WET INLAY  
TEMPERATURE SENSOR  
TAG  
Ø 37 x 0.25 mm  
ISO14443A 13,56 MHz**



Bul. Tsarigradsko Shose, 135D  
1784 Sofia, Bulgaria

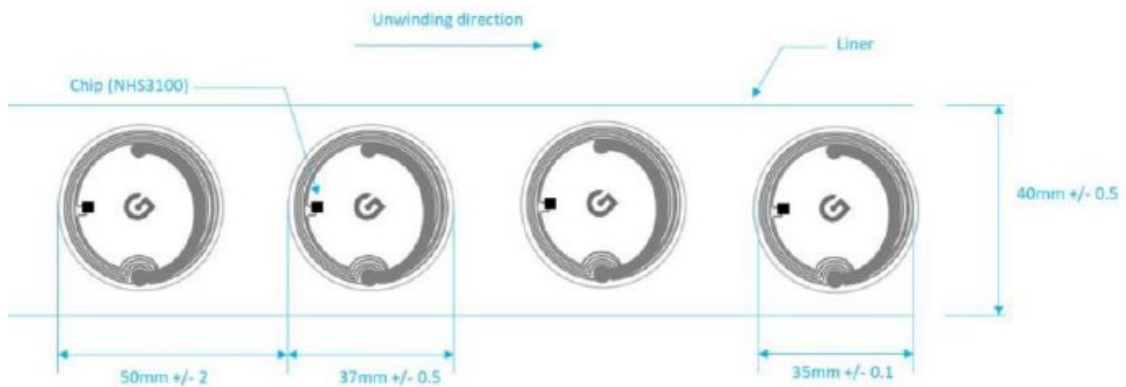
arfidex GmbH | Adlerstraße 2 | D-63322 Rödermark | Germany | Phone: +49 (0) 6074 861930

<https://www.arfidex.de> | [info@arfidex.de](mailto:info@arfidex.de)

© arfidex makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does arfidex assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by arfidex have been subject to limited testing and should not be used in conjunction with mission-critical equipment or applications. Any performance specifications are believed to be reliable but are not verified, and Buyer must conduct and complete all performance and other testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by arfidex. It is the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by arfidex hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. arfidex does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is proprietary to arfidex, and arfidex reserves the right to make any changes to the information in this document or to any products and services at any time without notice.



**NHS3100-ARA**  
**PASSIVE**  
**NFC / HF WET INLAY**  
**TEMPERATURE SENSOR**  
**TAG**  
**Ø 37 x 0.25 mm**  
**ISO14443A 13,56 MHz**

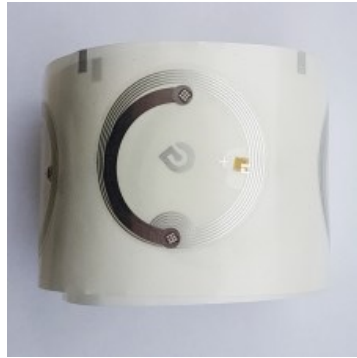


Bul. Tsarigradsko Shose, 135D  
1784 Sofia, Bulgaria

arfidex GmbH | Adlerstraße 2 | D-63322 Rödermark | Germany | Phone: +49 (0) 6074 861930

<https://www.arfidex.de> | [info@arfidex.de](mailto:info@arfidex.de)

© arfidex makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does arfidex assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by arfidex have been subject to limited testing and should not be used in conjunction with mission-critical equipment or applications. Any performance specifications are believed to be reliable but are not verified, and Buyer must conduct and complete all performance and other testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by arfidex. It is the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by arfidex hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. arfidex does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is proprietary to arfidex, and arfidex reserves the right to make any changes to the information in this document or to any products and services at any time without notice.



**NHS3100-ARA**  
**PASSIVE**  
**NFC / HF WET INLAY**  
**TEMPERATURE SENSOR**  
**TAG**  
**Ø 37 x 0.25 mm**  
**ISO14443A 13,56 MHz**

**Options:**

- Other diameter /square / rectangular versions are available
- Single sided or double sides Adhesive version is available
- Customised printing, logo
- Serial Number printing
- UID Number printing

This RFID transponder WET INLAY is used by system integrators or endusers in NFC RFID systems.

**Applications:**

- Inlay for integration in customers housing (Key Fob etc.)
- Integration in thin material custom OEM label possible
- Your application



Bul. Tsarigradsko Shose, 135D  
1784 Sofia, Bulgaria

---

arfidex GmbH | Adlerstraße 2 | D-63322 Rödermark | Germany | Phone: +49 (0) 6074 861930

<https://www.arfidex.de> | [info@arfidex.de](mailto:info@arfidex.de)

© arfidex makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does arfidex assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by arfidex have been subject to limited testing and should not be used in conjunction with mission-critical equipment or applications. Any performance specifications are believed to be reliable but are not verified, and Buyer must conduct and complete all performance and other testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by arfidex. It is the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by arfidex hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. arfidex does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is proprietary to arfidex, and arfidex reserves the right to make any changes to the information in this document or to any products and services at any time without notice.